

"CASE FILE COPY"

JSC-12947
part 4 of 4

CR 157,578

NEAR EARTH PHOTOGRAPHS FROM THE APOLLO MISSIONS
AND THE APOLLO-SOYUZ TEST PROJECT

By

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Prepared By

Lockheed Electronics Company, Inc.
Systems and Services Division
Houston, Texas

Contract NAS 9-15200

For

EARTH OBSERVATIONS DIVISION
SPACE AND LIFE SCIENCES DIRECTORATE

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National Aeronautics and Space Administration
LYNDON B. JOHNSON SPACE CENTER

Houston, Texas
August 1977

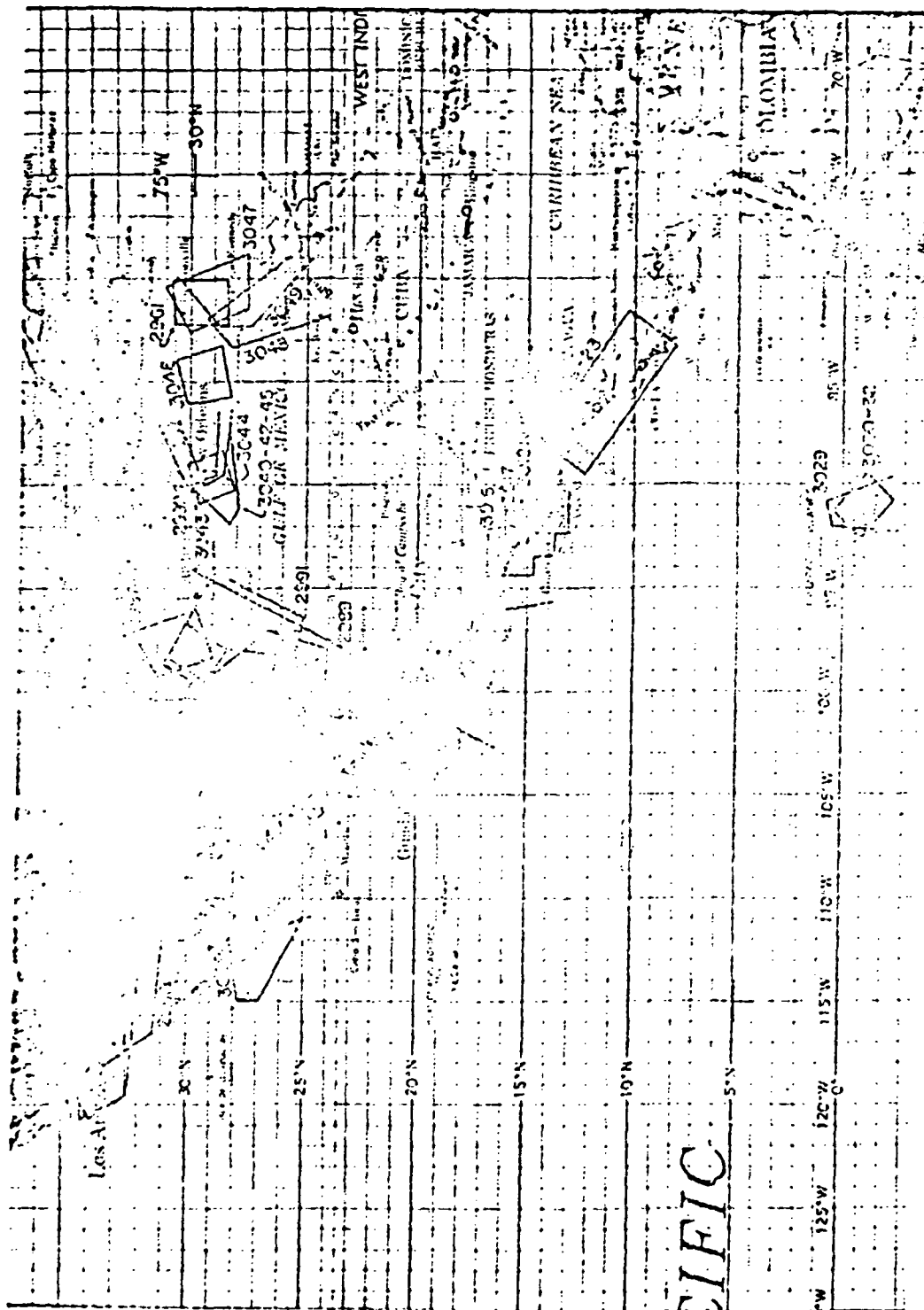
LEC-11026
part 4 of 4

9

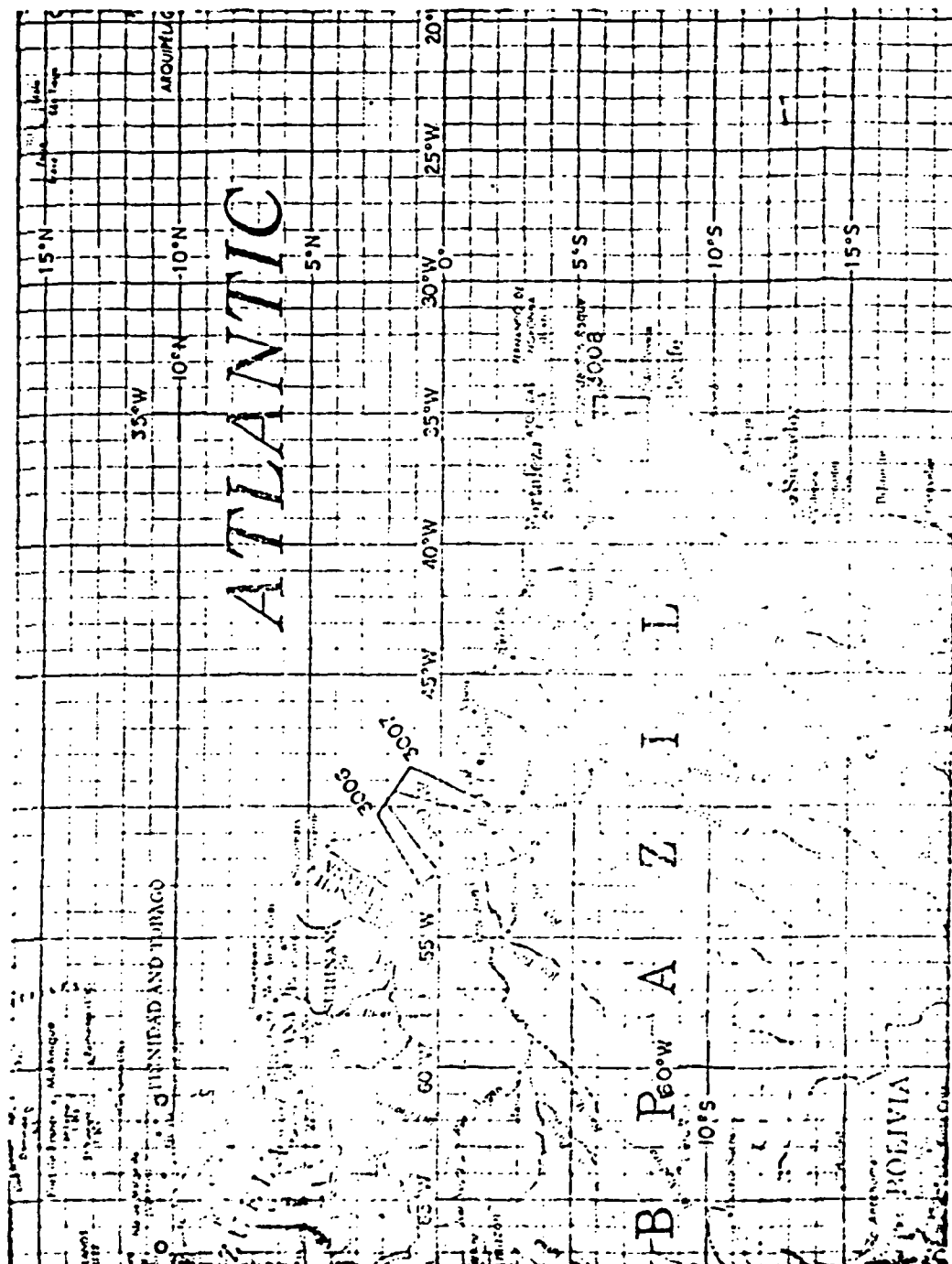
APOLLO EARTH PHOTOGRAPHS INDEX MAPS

APOLLO MISSION 9

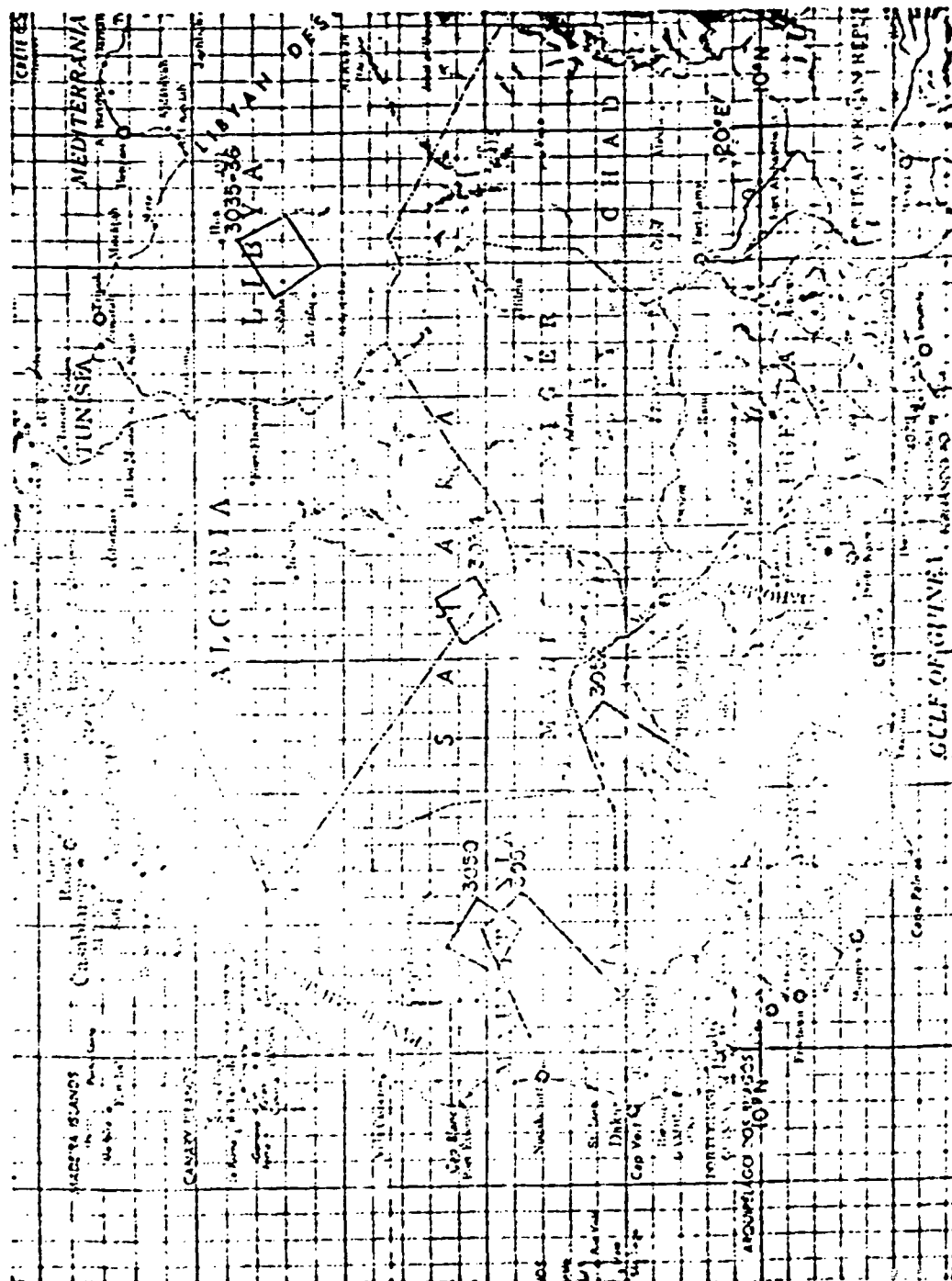
Apollo 9 frames AS9-19-2989 and 2990, instead of beginning south of Corpus Christi and running north (as shown on page 11 of the Apollo Earth Photographs Index Maps document) begin south of Houston and point southward toward Corpus Christi. Because of this the framing indicated on page 11 is reversed.



APOLLO 9 Handheld Photography - MAGAZINE A

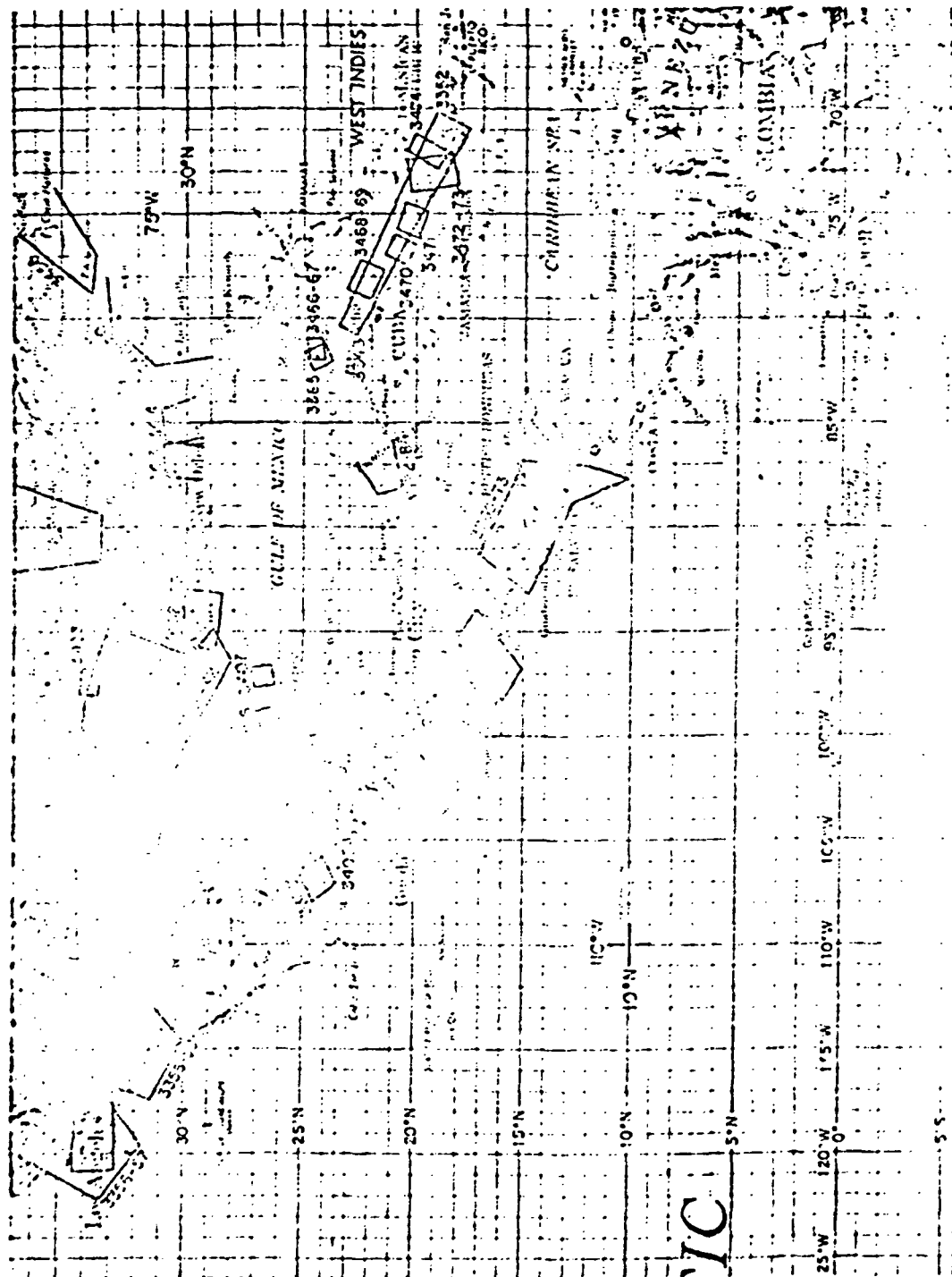


APOLLO 9 Handheld Photography - MAGAZINE A

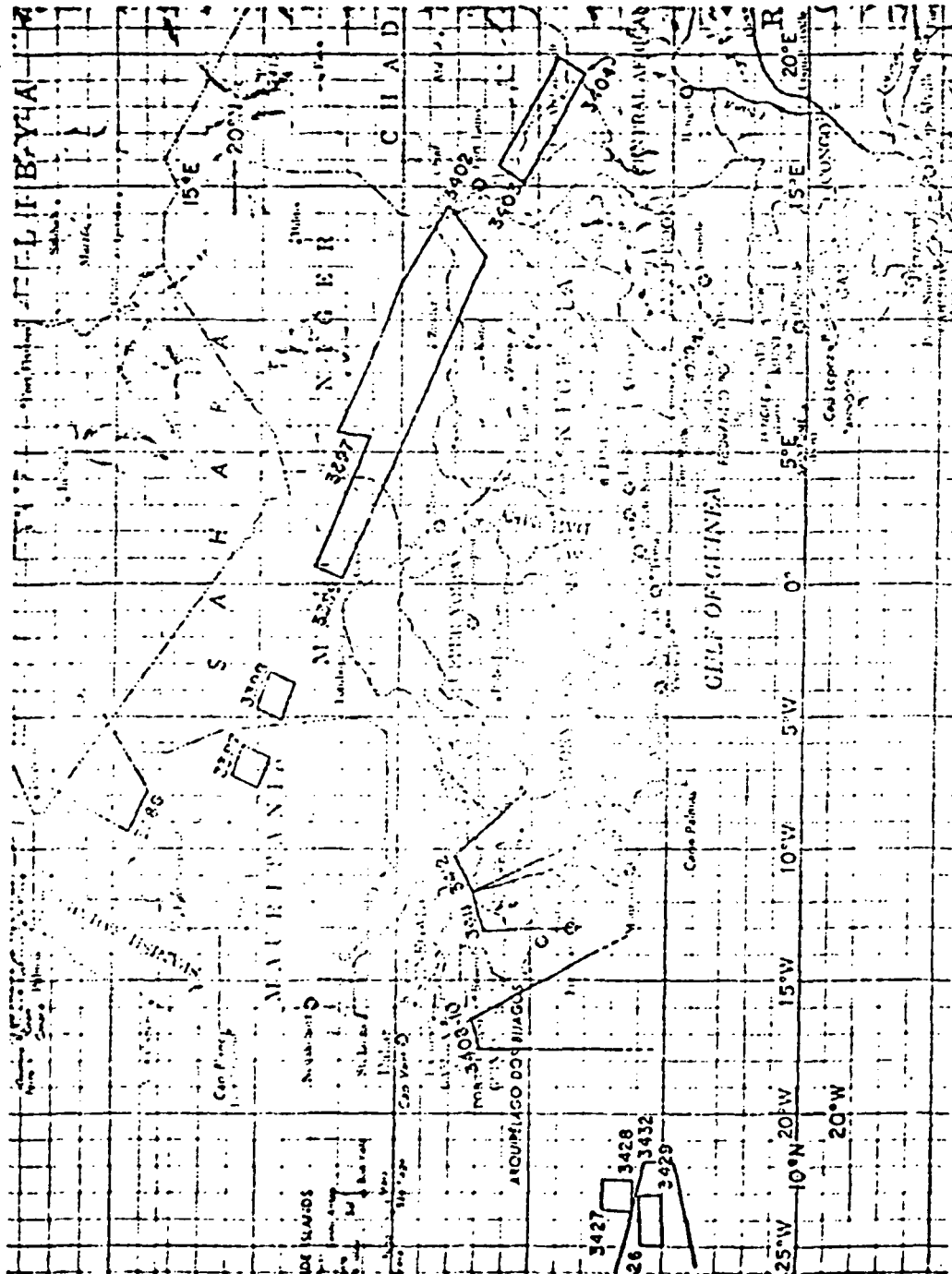


APOLLO 9 Handheld Photography - MAGAZINE A

APOLLO 9 Handheld Photography - MAGAZINE B



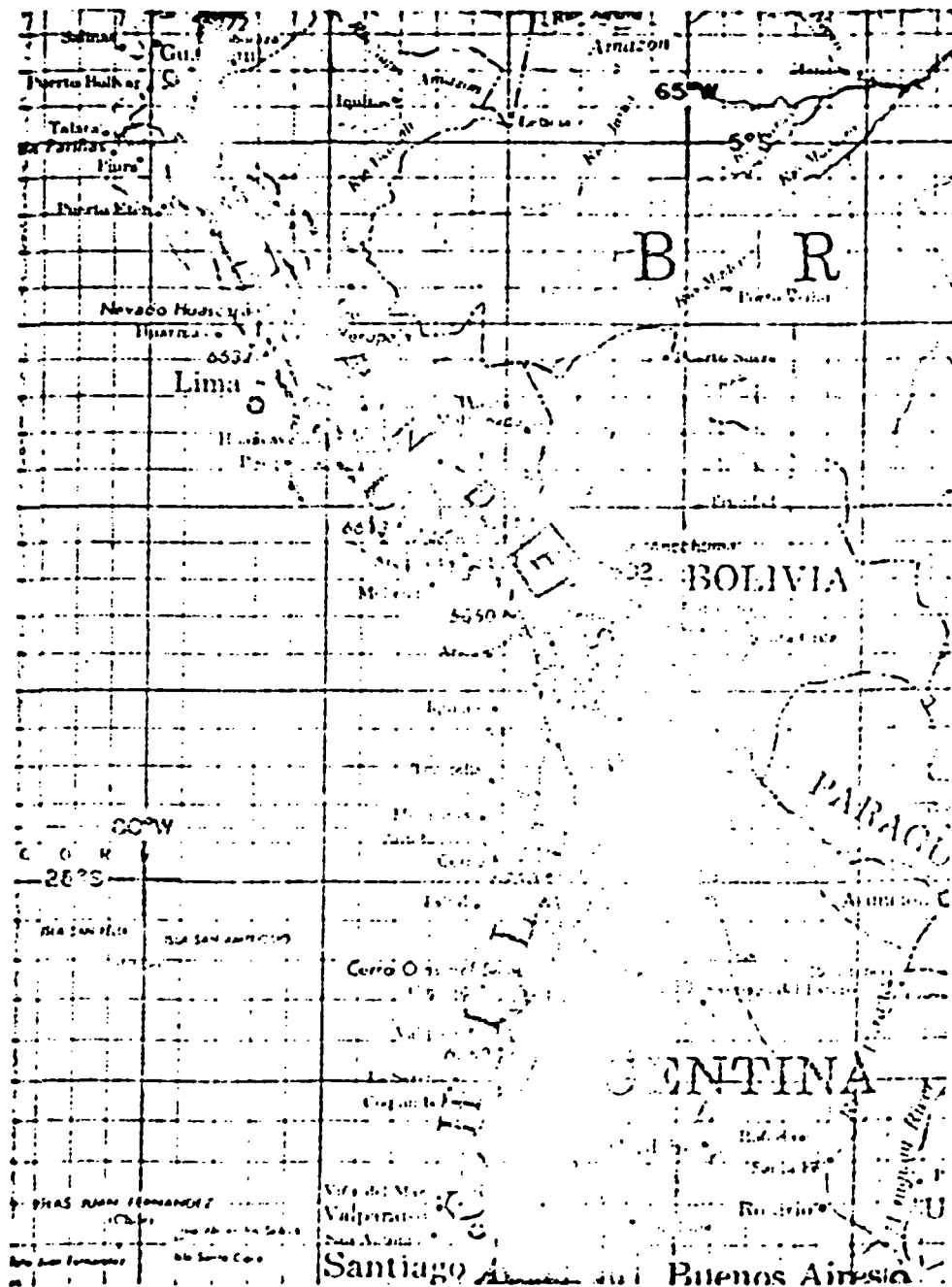
APOLLO 9 Handheld Photography - MAGAZINE C



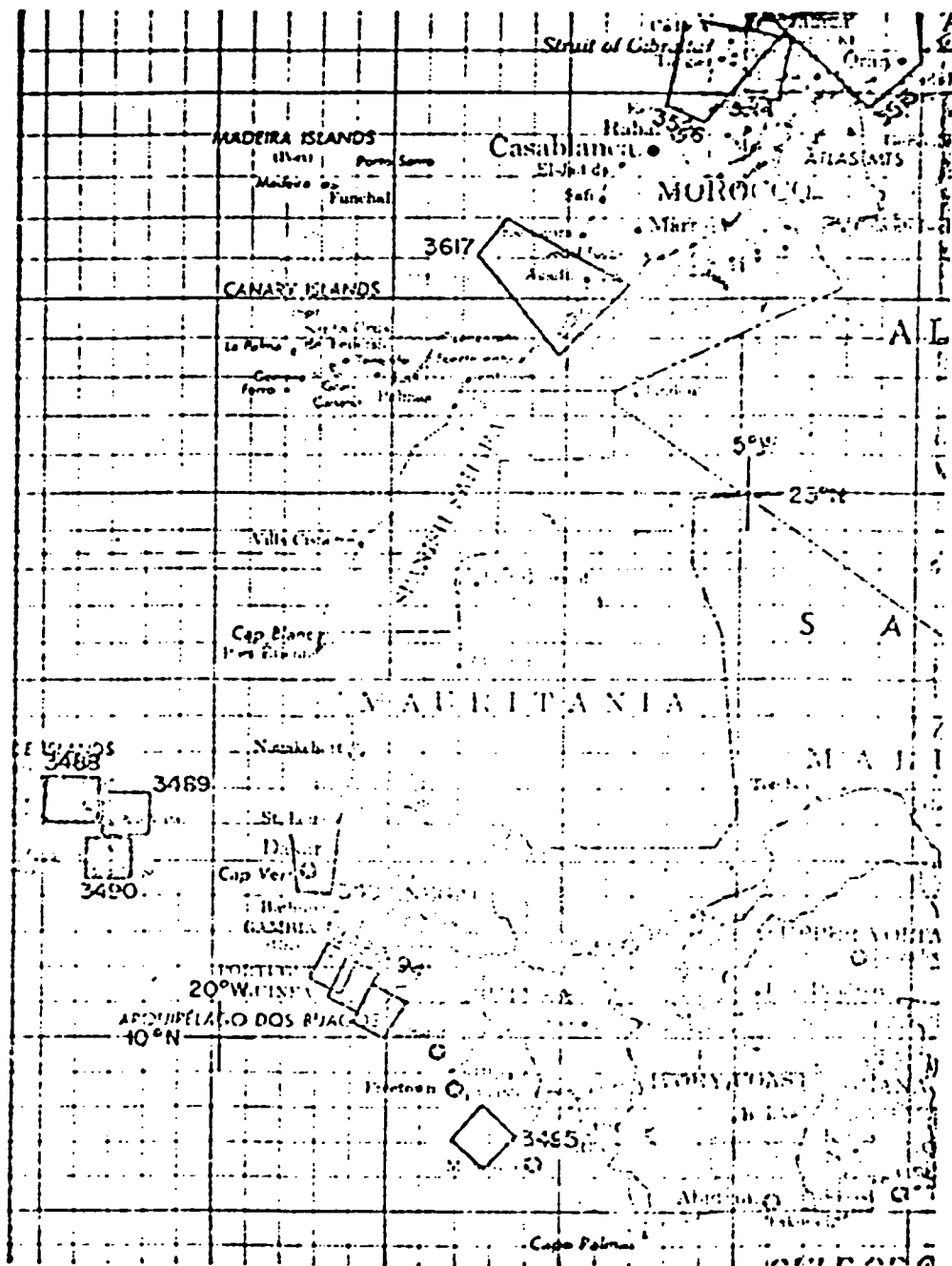
APOLLO 9 Handheld Photography - MAGAZINE C



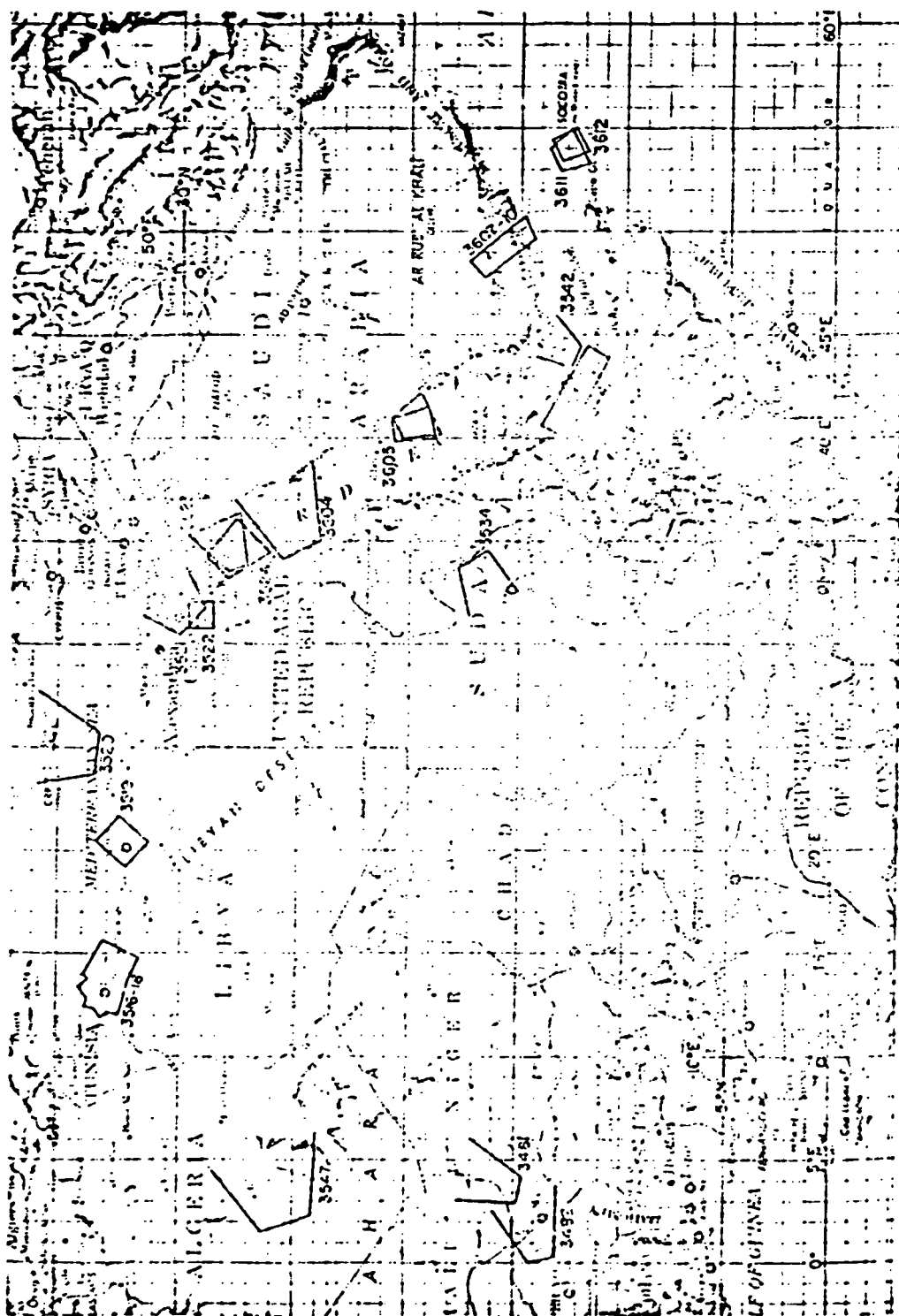
APOLLO 9 Hand-held Photography - MAGAZINE D



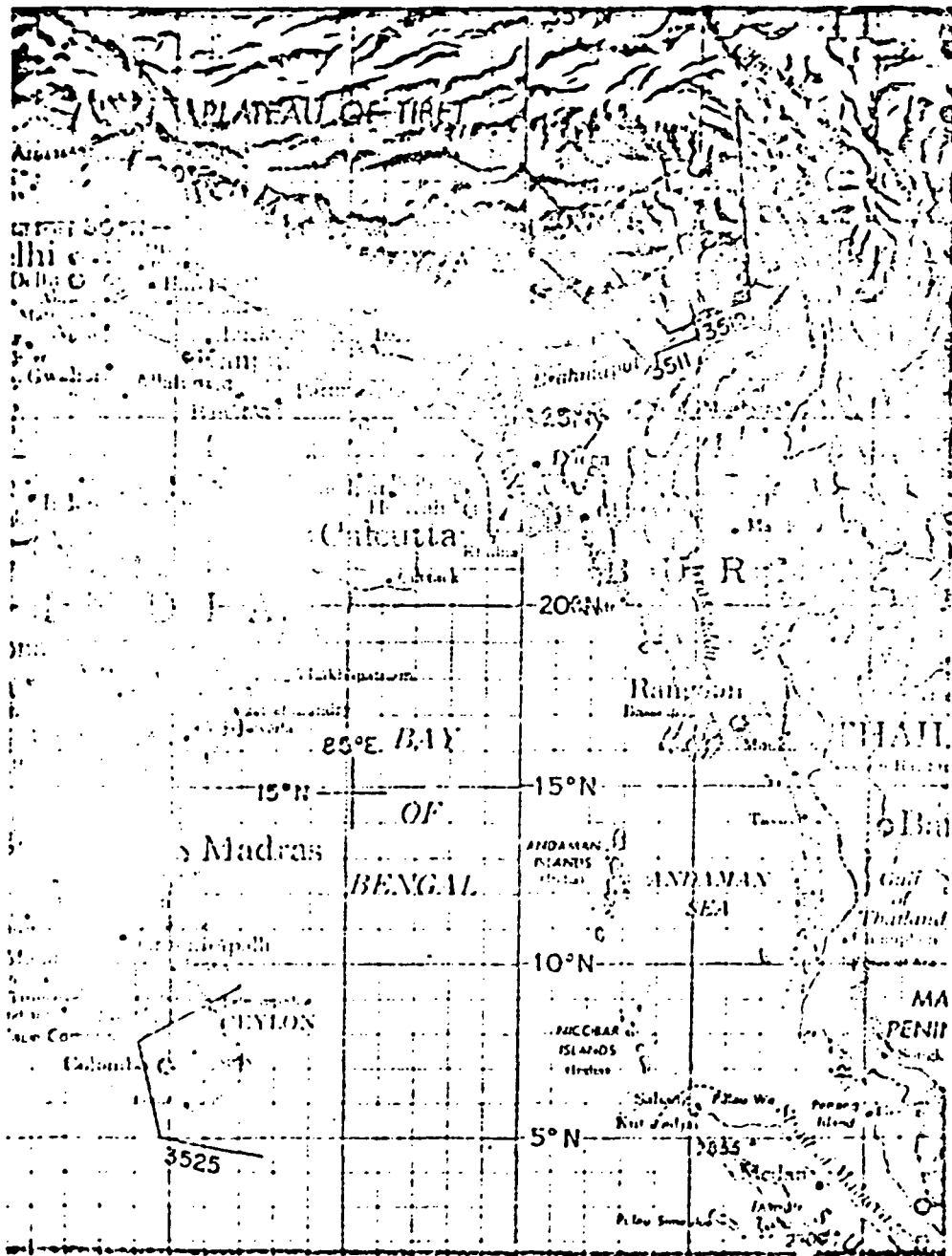
APOLLO 9 Handheld Photography - MAGAZINE D



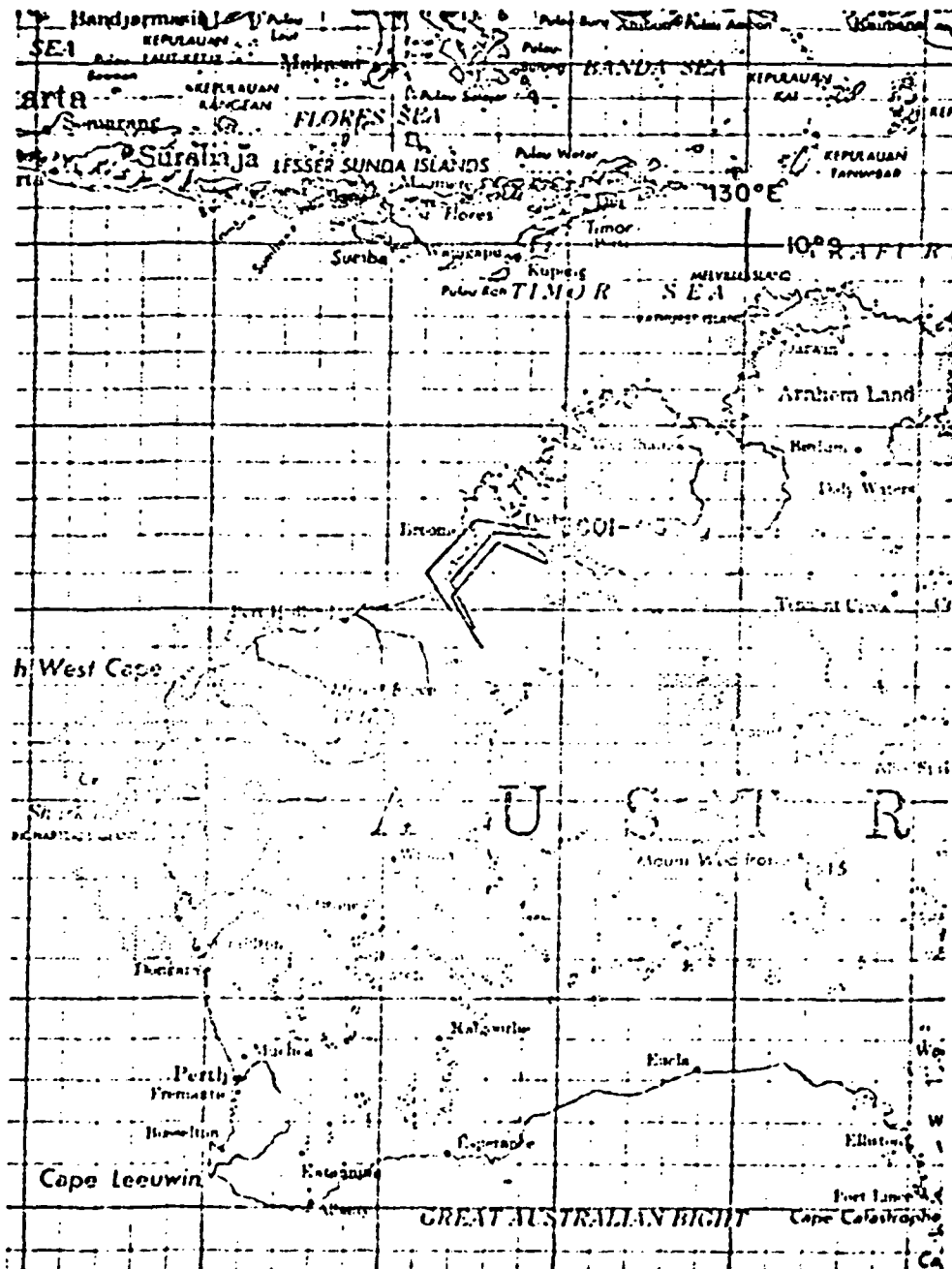
APOLLO 9 Handheld Photography - MAGAZINE D



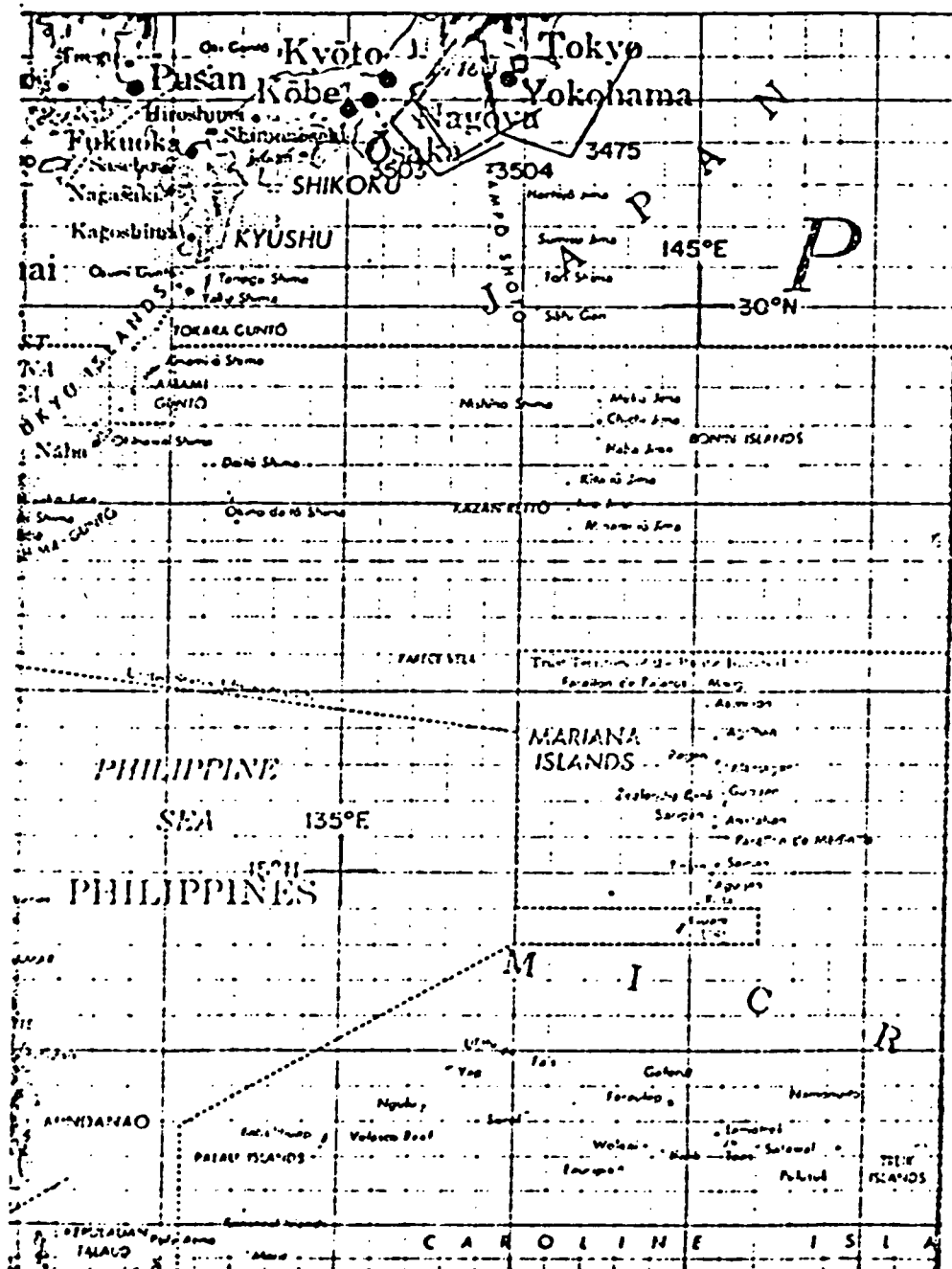
APOLLO 9 Handheld Photography - MAGAZINE D



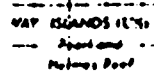
APOLLO 9 Handheld Photography - MAGAZINE D



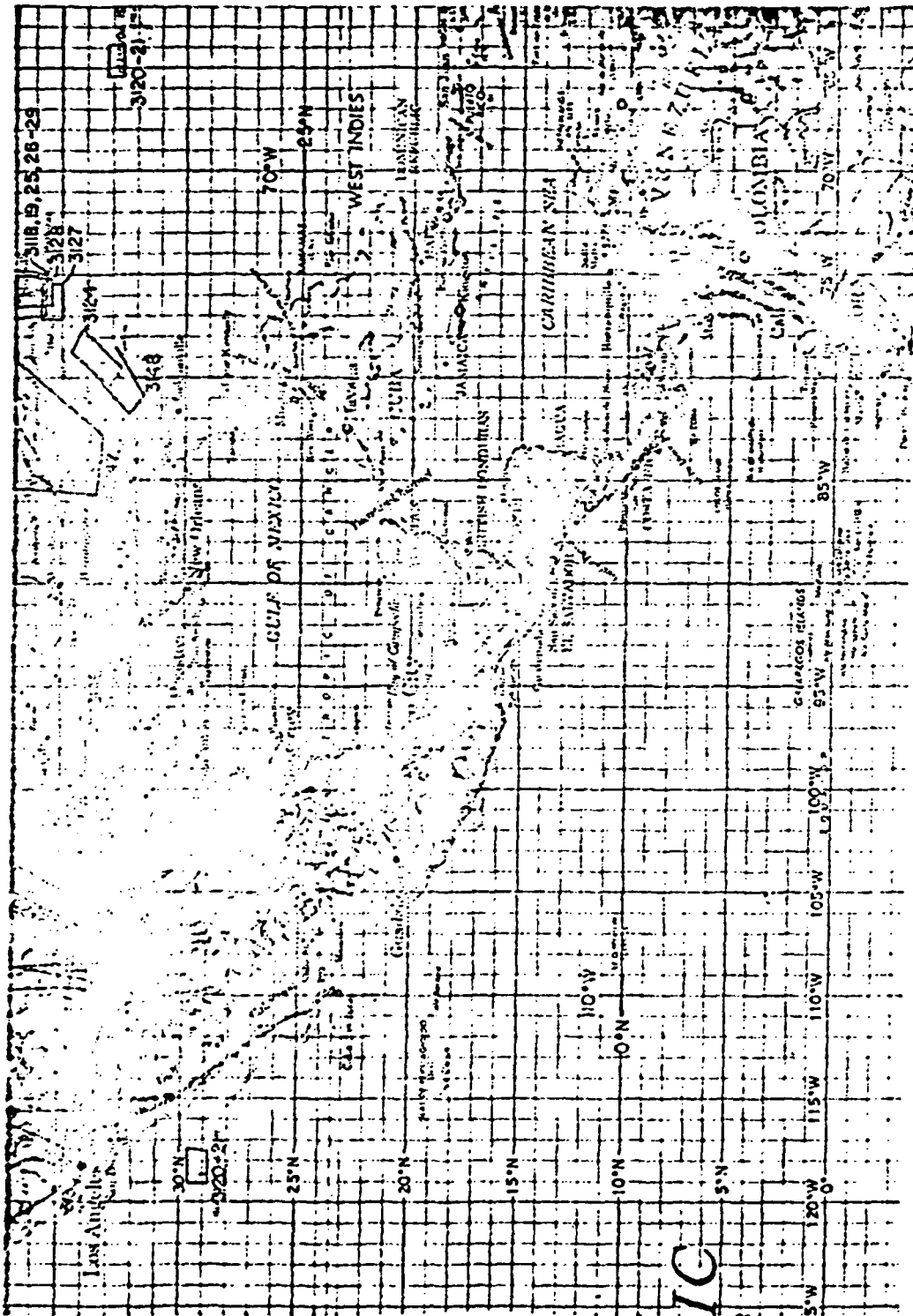
APOLLO 9 Handheld Photography - MAGAZINE D



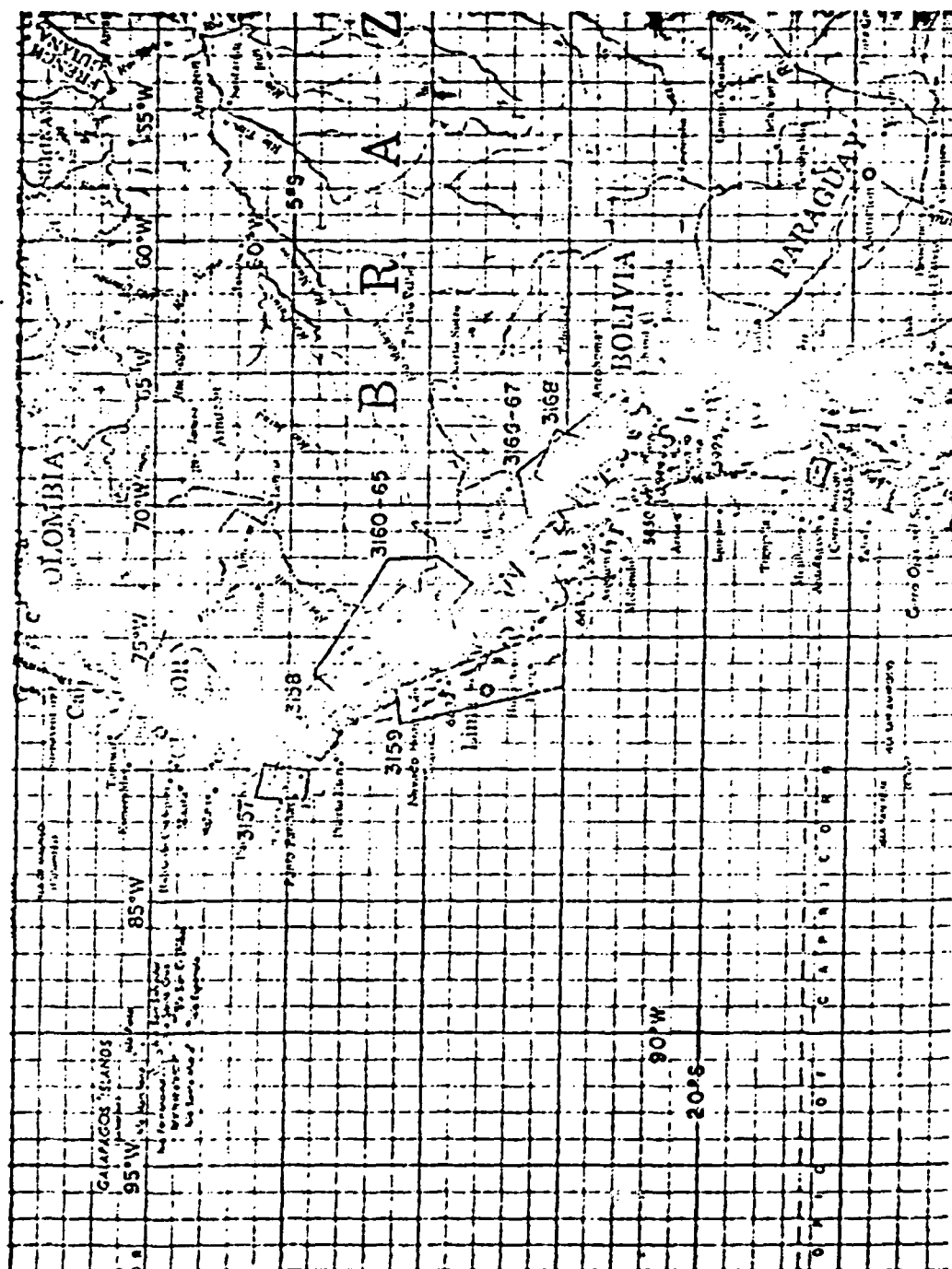
APOLLO 9 Handheld Photography - MAGAZINE D



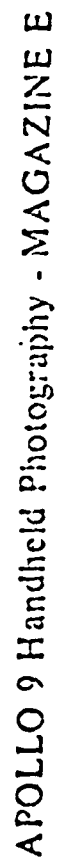
APOLLO 9 Handheld Photography - MAGAZINE D

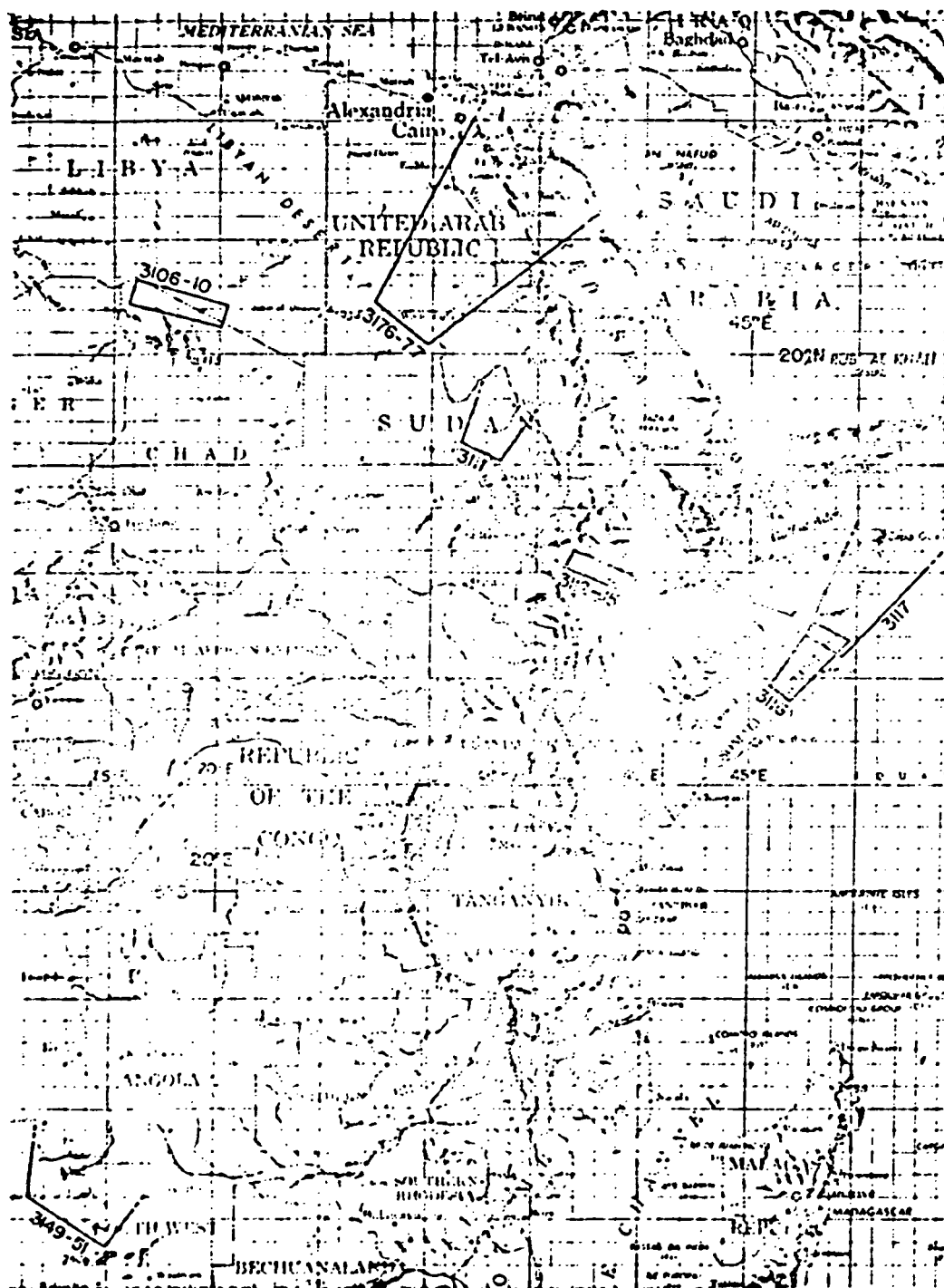


APOLLO 9 Handheld Photography - MAGAZINE E

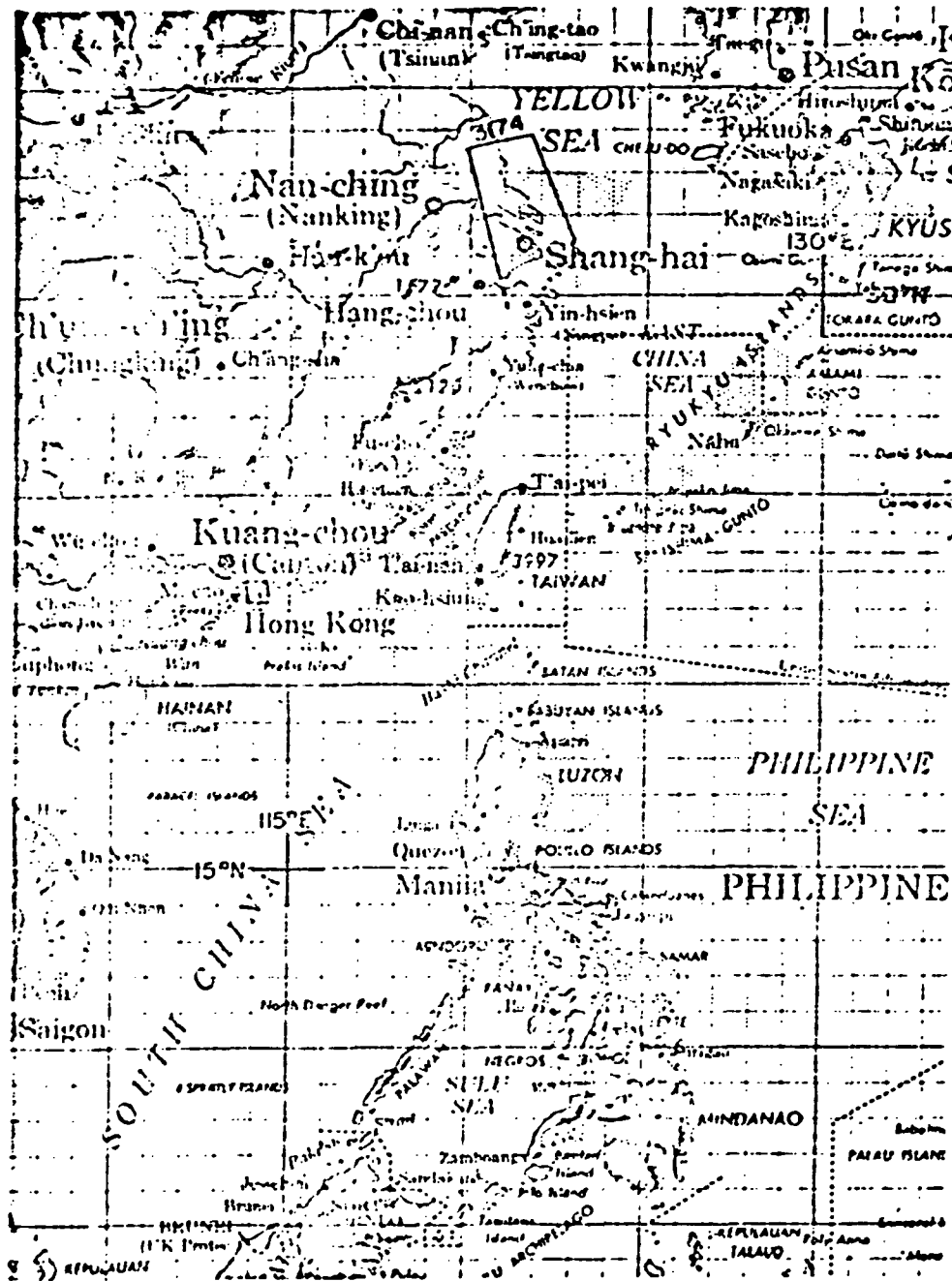


APOLLO 9 Handheld Photography - MAGAZINE E

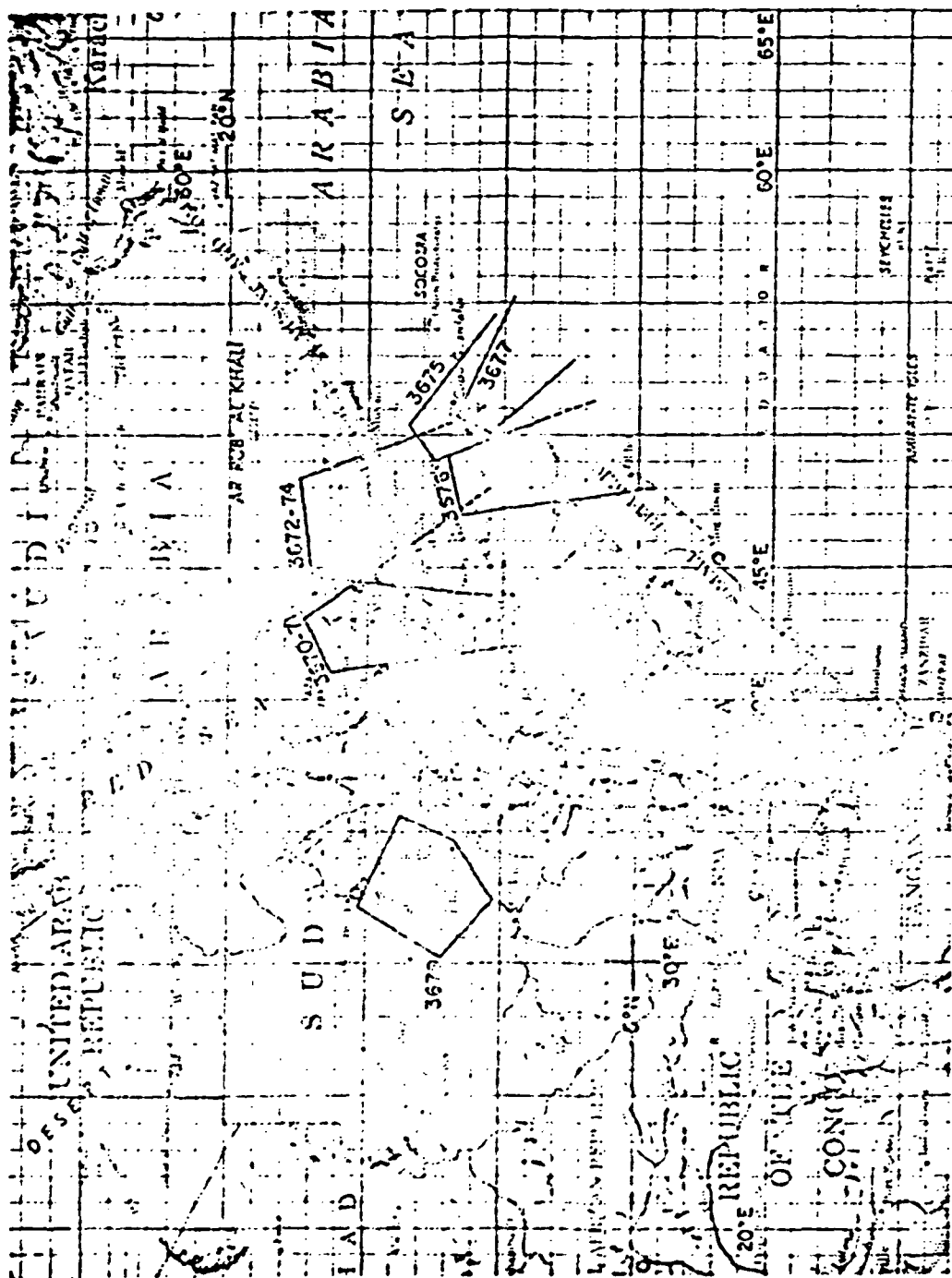




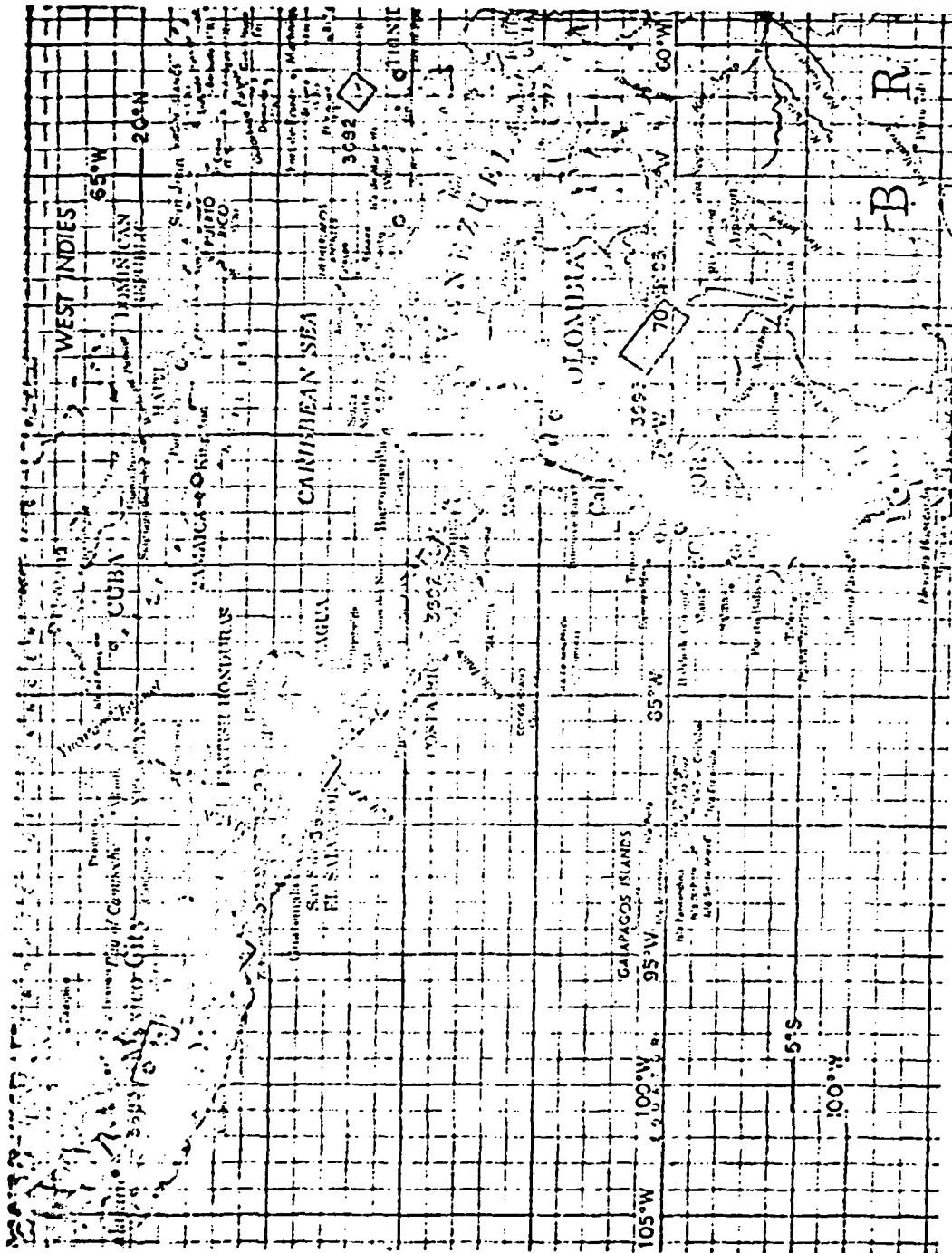
APOLLO 9 Handheld Photography - MAGAZINE E



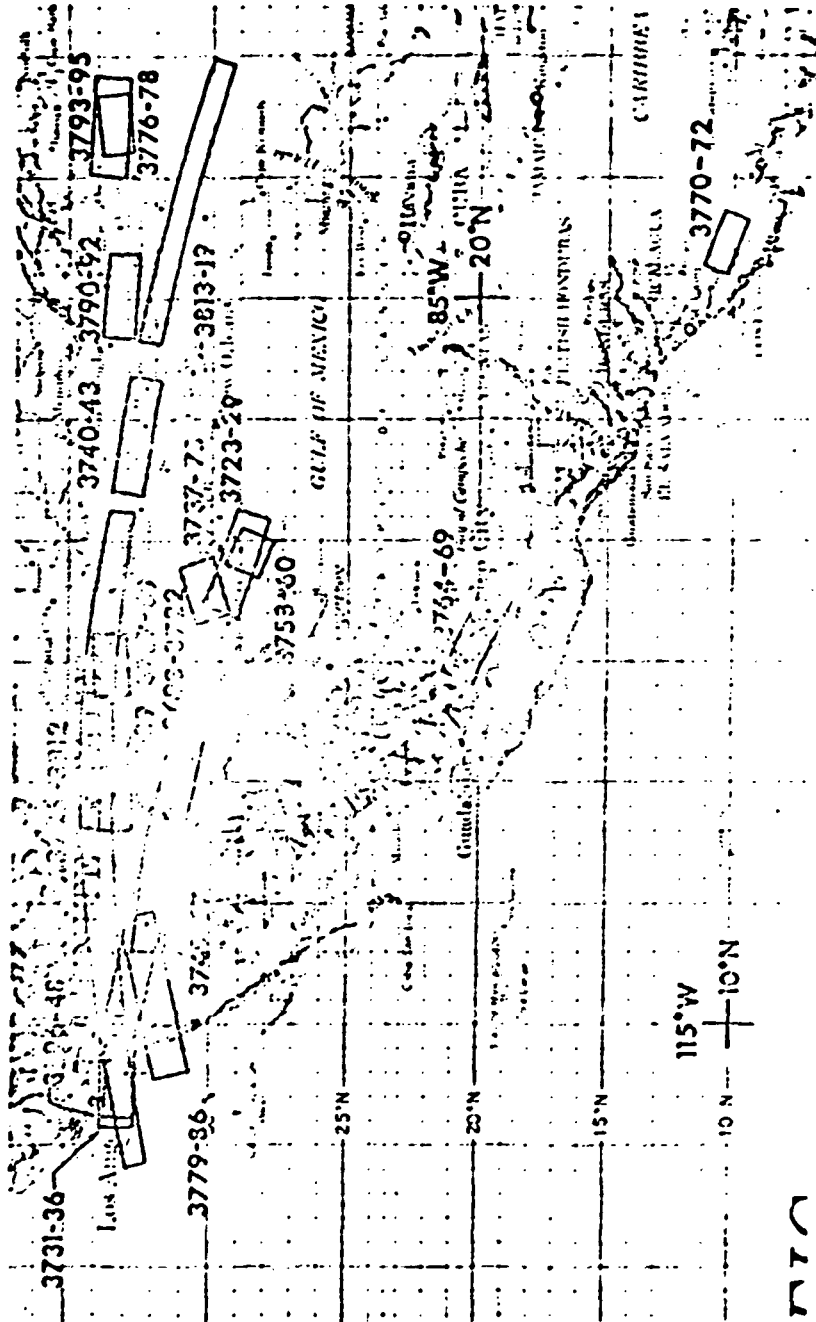
APOLLO 9 Handheld Photography - MAGAZINE E



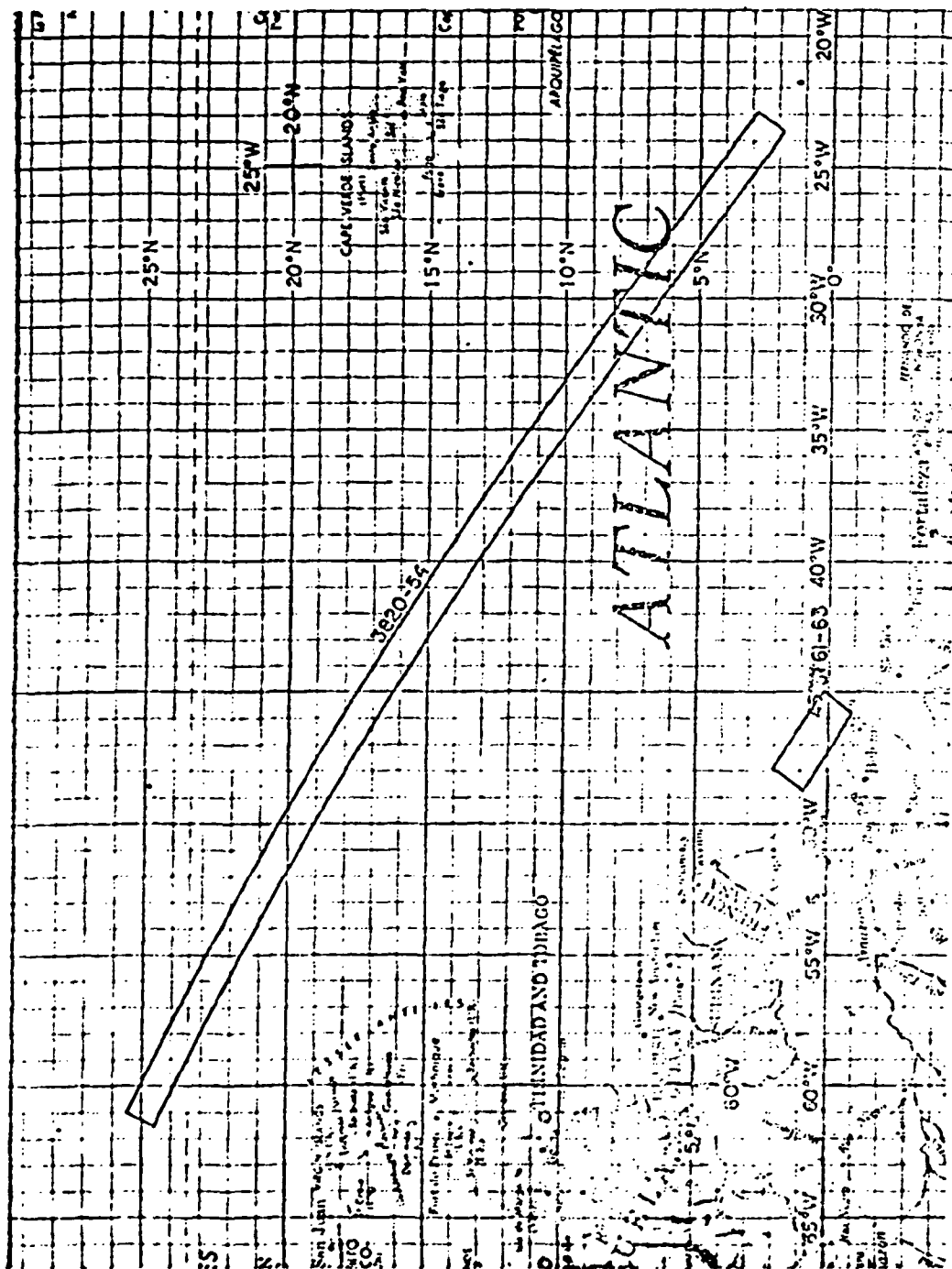
APOLLO 9 Handheld Photography - MAGAZINE F



APOLLO 9 Handheld Photography - MAGAZINE G



APOLLO 9 SO-65 Multispectral Photography - INDEX MAP



APOLLO 9 SO-65 Multispectral Photography - INDEX MAP

SECTION 8
APOLLO-SOYUZ TEST PROJECT
(Reference 8)

APOLLO-SOYUZ TEST PROJECT

INDEX TO ONBOARD
PHOTOGRAPHY

(70-MM, 35-MM, 16-MM)

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NOTES TO USERS

This document is compiled in order to provide the user with a quick reference guide to the subject content of the Apollo-Soyuz Test Project (ASTP) onboard photography secured by the astronauts of the United States of America. The official NASA number is indicated and should be used in ordering or searching for photography. In cases where reliable data is available, the revolution number; times, both Greenwich Mean and Apollo Ground Elapsed; lens focal length; and approximate altitude are shown.

The document is intended as a general guide. It is recommended that users view the photography prior to ordering as the quality of photography varies from excellent to unusable. When the term "Out of focus" appears in the description, the photo is unusable. Those marked "Underexposed," "Overexposed," and "Blurred" are generally unusable but may contain some information for a few possible users. Questions regarding photographic quality and content can be directed to the author.

Explanation of Information

Frame No.: Position of each frame on the roll of film.

NASA JSC Photo No.: Official number assigned by the Photographic Technology Division.

Time of Photo - GMT: The Greenwich Mean Time is indicated when enough data is available to support inclusion. The main use should be as an aid to the computation of local times. The time indicated is approximate and could contain an error of several minutes. The time is given in day of 1975, hours and minutes. Days are as follows:

196 = July 15, 1975	201 = July 20, 1975
197 = July 16, 1975	202 = July 21, 1975
198 = July 17, 1975	203 = July 22, 1975
199 = July 18, 1975	204 = July 23, 1975
200 = July 19, 1975	205 = July 24, 1975

Time of Photo - GET: The Apollo Ground Elapsed Time as computed from the lift-off of the spacecraft at the Kennedy Space Center, Florida, at GMT - 195:19:50:00 or 3:50 p.m. Eastern Daylight Time (EDT). This was some 7:30 hours after the lift-off of Soyuz 19 at 196:12:20:00 GMT. During most of the mission the Apollo used the Soyuz 19 GET clock. Thus many documents and events calculated on Soyuz 19 GET should subtract 7 hours and 30 minutes to get the Apollo GET. Times indicated are supported by data or a "best estimate."

Rev. No.: The revolution number of the Apollo spacecraft based on Apollo launch at Kennedy Space Center, Florida, and completing a 360 degree of longitude in an eastward direction around the Earth and returning to the launch meridian of approximately 80 degrees west longitude. The rotation of the Earth is not accounted for.

Altitude (km): Furnished in approximate kilometers so that the user can have a general idea of the altitude. It is based on projected data and can vary by several kilometers. Absolute altitude is of little or no value for the subject photography.

Lens Focal Length: This is based on the author's best estimate of which lens was on the camera at the time the photo was made. Nominal focal length in millimeters is indicated.

Description: This is to provide the user with the general geographic location of the photo or the general subject content.

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APOLLO SOYUZ TEST PROJECT (Stafford-Brand-Slayton) JULY 15-24, 1975

Film/Magazine Identification No.		CX-06	Laboratory Roll No.	1	Camera Hasselblad Reflex, 70-mm, Data Model 500EL, NASA Modified	Film 70-mm Ektachrome, MS, Type QX-807 ASA = 64
Frame No.	NASA JSC Photo No.	Time of Photo GMT	Rev. No.	Altitude (km)	Lens (mm)	Photograph Description, Location, Subject, etc.
001	AST-1-001		1		50	Clouds over Pacific Ocean
002	002		"		"	"
003	003	196:22:24	2	172	"	S-IV-B, Docking Module
004	004		"	"	"	"
005	005	196:22:25	"	"	"	S-IV-B at Docking Module Extraction
006	AST-1-006		"	"	"	"
007	007	196:22:26	"	"	"	"
008	008		"	171	"	S-IV-B
009	009	196:22:27	"	"	"	"
010	010		"	"	"	"
011	AST-1-011	196:22:28	"	170	"	"
012	012		"	"	"	"
013	013	196:22:29	"	"	"	S-IV-B, Clouds
014	014		"	169	"	S-IV-B, New Zealand (North Island), East Cape, Hawke Bay
015	015	196:22:30	"	"	"	"
016	AST-1-016		"	168	"	S-IV-B, New Zealand (North Island), Mahia Peninsula, in background Hawke Bay
017	017		"	"	"	Clouds over Pacific Ocean
018	018		"	"	"	"
019	019	197:02:01	4	228	"	Canada, Manitoba, Lake Winnipeg, Red Riv., Assiniboine Riv.
020	020	197:21:57	17	189	"	Clouds, Looking S. from 1500 E
021	AST-1-021		"	"	"	"
022	022		"	"	250	"
023	023	197:21:58	"	188	"	Clouds SW of New Zealand
024	024		"	"	"	"
025	025		"	187	"	"
026	AST-1-026		"	"	"	"
027	027	197:21:59	"	186	"	"
028	028		"	"	"	New Zealand (South Island), Southern Alps, Clouds
029	029		"	185	"	"
030	030		"	"	"	"

Frame No.	MASA JSC Photo No.	Time of Photo GMT	Photo GET	Rev. No.	Altitude (Kt)	Lens (mm)	Photograph Description, Location, Subject, etc.
031	AST-1-031	197:21:59	26:09	17	184	250	New Zealand (South Island), Southern Alps, Clouds
032	032	197:22:00	26:10	"	183	"	"
033	033	"	"	"	"	"	"
034	034	"	"	"	"	"	"
035	035	197:22:01	26:11	"	182	"	Clouds over New Zealand
036	AST-1-036	"	"	"	"	"	Clouds over Pacific Ocean, NE of New Zealand
037	037	"	"	"	161	"	Pacific Ocean NE of New Zealand "Scum"
038	038	197:22:03	26:13	"	176	"	Pacific Ocean NE of New Zealand
039	039	197:22:06	26:16	"	174	"	Atutaki Atoll in Cook Islands
040	040	"	"	"	"	"	Clouds over Pacific Ocean
041	AST-1-041	197:22:21	26:31	"	177	"	"
042	042	198:01:03	29:13	19	170	"	"
043	043	"	"	"	"	"	Australia, Queensland, Dawson Riv.
044	044	198:01:04	29:14	"	169	"	"
045	045	"	"	"	"	"	Townshend I., Great Barrier
046	AST-1-046	"	"	"	168	"	"
047	047	"	"	"	"	"	Great Barrier Reef, Sunlight
048	048	198:11:37	39:47	26	173	"	Egypt, Cairo, Nile River, Nile Delta, Pyramids of Giza
049	049	"	"	"	"	"	"
050	050	"	"	"	"	"	"
051	AST-1-051	"	"	"	180	"	Egypt, Cairo, Nile River, Fayum, Suez Canal
052	052	198:11:39	39:49	"	"	"	Syria-Cyprus, Latakia, Cape Andreas, Hamah
053	053	198:15:50	44:00	29	222	50	Seyuz-19, End View - Instrument Assembly End-Range = 10 meters
054	054	"	"	"	"	"	"
055	055	198:16:00	44:10	"	"	"	"
056	AST-1-056	"	"	"	"	"	"
057	057	198:16:05	44:15	"	"	"	"
058	058	198:16:10	44:20	"	"	"	Periton of Seyuz-19, Solar Panel, Range = 9 Meters
059	059	204:16:50	213:00	136	217	250	Soyuz-19, Antenna at Docking
060	060	"	"	"	"	"	Maryland-Virginia, Potomac River, Chesapeake Bay, Tangier I., Very Hazy
061	AST-1-061	"	"	"	"	"	Chesapeake Bay, Potomac River, Crisfield, Hazy
062	062	"	"	"	"	"	Maryland, Chesapeake Bay, Crisfield, Blurred Hazy
063	063	204:16:51	213:01	"	219	"	Delaware, Salisbury, Nanticoke River, Fishing Bay, Hazy
064	064	"	"	"	"	"	Massachusetts, Nantucket, Chappaquiddick, Monroey Islands, Nantucket Sound
065	065	204:16:52	213:02	"	220	"	Massachusetts, Cape Cod, Provincetown, Iyannis, Cape Cod Bay
							Atlantic Ocean, East of Massachusetts

Frame No.	NASA JSC Photo No.	Time of Photo GMT GET	Rev. No.	Altitude (Kf)	Lens (mm)	Photograph Description, Location, Subject, etc.
066	AST-1-056	204:16:52	136	220	250	Atlantic Ocean, East of Maine
067	057	204:16:53	"	221	"	Canada-Nova Scotia, Cobequid Bay, Truro, Minas Basin
068	058	"	"	"	"	"
069	069	"	"	"	"	Canada-Nova Scotia, Cobequid Bay, Truro, New Glasgow
070	070	"	"	"	"	North Atlantic, Clouds, Contrail

END OF ROLL

APOLLO SOYUZ TEST PROJECT (Stafford-Brand-Slayton) JULY 15-24, 1975

Film/Magazine Identification No.		Laboratory Roll No.		Camera Hasselblad Reflex, 70-mm. Model 500SL, NASA Modified		Film 70-mm Ektachrome, MS, Type OX-807 ASA = 64	
Frame No.	NASA JSC Photo No.	Time of Photo GET	Rev. No.	Altitude (km)	Lens (mm)	Photograph Description, Location, Subject, etc.	
001	AST-2-071	200:15:39 91:48	59	230	50	Soyuz-19, Range = 45 Meters	
002	072	"	"	"	"	" " " " " "	
003	073	"	"	"	"	" " " " " "	
004	074	200:15:39 91:49	"	"	"	" " " " " "	
005	075	"	"	"	"	" " " " " "	
006	AST-2-076	200:15:49 91:59	"	228	"	Soyuz-19, Silhouette, Range = 110 Meters	
007	077	200:15:50 92:00	"	227	"	" " " " " "	
008	078	200:15:51 92:01	"	226	"	Soyuz-19, At Terminator, Range = 220 Meters	
009	079	"	"	"	"	Black Sky	
010	080	"	"	"	"	" " " " " "	
011	AST-2-081	"	"	"	"	Soyuz-19, Faintly Backlit, Range = 30 Meters	
012	082	"	"	"	"	" " " " " "	
013	083	"	"	"	"	Side View, Range = 115 Meters	
014	084	"	"	"	"	" " " " " "	
015	085	"	"	"	"	" " " " " "	
016	AST-2-086	"	"	"	"	" " " " " "	
017	087	"	"	"	"	" " " " " "	
018	088	"	"	"	"	" " " " " "	
019	089	"	"	"	"	" " " " " "	
020	090	"	60	"	"	" " " " " "	
021	AST-2-091	"	"	"	"	" " " " " "	
022	092	"	"	"	"	" " " " " "	
023	093	"	"	"	"	" " " " " "	
024	094	"	"	"	"	" " " " " "	
025	095	"	"	"	"	" " " " " "	
026	AST-2-096	"	"	"	"	" " " " " "	
027	097	"	"	"	"	" " " " " "	
028	098	200:18:34 94:44	61	230	"	" " " " " "	
029	099	"	"	"	"	" " " " " "	
030	100	"	"	"	"	" " " " " "	

Frame No.	NASA JSC Photo No.	Time of Photo GWT GET	Rev. No.	Altitude (ft)	Lens (mm)	Photograph Description, Location, Subject, etc.
031	AST-2-101	200:23:58 100:08	64	228	250	Black Australia, Great Barrier Reef
032	102	"	"	"	"	"
033	103	"	"	"	"	"
034	104	"	"	"	"	"
035	105	"	"	"	"	"
036	AST-2-106	201:00:00 100:10	"	225	"	Clouds over Coral Sea
037	107	"	"	"	"	"
038	108	201:00:01 100:11	"	224	"	"
039	109	"	"	"	"	"
040	110	201:00:02 100:12	"	223	"	"
041	AST-2-111	"	"	"	"	"
042	112	"	"	"	"	"
043	113	"	"	"	"	Clouds over Pacific Ocean
044	114	"	"	"	"	"
045	115	"	"	"	"	"
046	AST-2-116	"	"	"	"	"
047	117	"	"	"	"	"
048	118	"	"	"	"	"
049	119	"	"	"	"	"
050	120	201:00:35 100:45	71	218	"	Chad, Neman Area, NE of Lake Chad
051	AST-2-121	"	"	"	"	"
052	122	"	"	"	"	"
053	123	201:00:38 100:48	"	"	"	Libya, Sertir of Sagra
054	124	"	"	"	"	"
055	125	"	"	"	"	"
056	AST-2-126	201:00:39 100:49	"	"	"	Egypt, Libya, Sudan, Jebel Uweinat
057	127	"	"	"	"	"
058	128	"	"	219	"	"
059	129	"	"	"	"	"
060	130	"	"	"	"	"
061	AST-2-131	201:00:40 100:50	"	"	"	"
062	132	"	"	"	"	Egypt, G:if Kayir Plateau
063	133	"	"	220	"	"
064	134	"	"	"	"	"
065	135	201:00:41 100:51	"	"	"	"

Frame No.	NASA JSC Photo No.	Time of Photo GMT	Rev. No.	Altitude (km)	Lens (mm)	Photograph Description, Location, Subject, etc.
066	AST-2-136	201:00:41	71	221	250	Egypt, Cairo, Nile River, Nile Delta
067	137	"	"	"	"	"
068	138	"	"	"	"	" Gulf of Suez, Sinai, Sudr
069	139	"	"	"	"	" Suez, Suez Canal, Sinai
070	140	"	"	222	"	" " " Sinai, Ras Gharib, Gensa
071	AST-2-141	201:00:42	"	"	"	Lebanon-Israel, Syria, Jordan River, El Qunetra, Mt. Herman
072	142	"	"	"	"	Syria-Lebanon-Israel, Sidon, Djezzne, Marjayoun
073	143	"	"	"	"	Lebanon-Syria, Damascus, Riyad, Zahle, Zebdani
074	144	201:00:51	"	227	"	USSR, Kazakh S.S.R., Emba River
075	145	"	"	"	"	Noons 7/3 Full
076	AST-2-146	"	"	"	"	"
END OF ROLL						

APOLLO SOYUZ TEST PROJECT (Stafford-Brand-Slayton) JULY 15-24, 1975

Film/Magazine Identification No.		Laboratory		Camera Nikon, 35-mm, Single Lens Reflex, Film 35-mm Ektachrome EF, Type SO-168, Data NASA Notified		Photograph Description, Location, Subject, etc.	
Frame No.		Time of Photo		Rev. No.		Lens (mm)	
AST-3-147		197:01:17 5:27		35		Zone Forming Fungi Experiment (NA-147)	
001	148						
002	149					Blurred	
003	150	197:16:20 5:30				Zone Forming Fungi Experiment (NA-147)	
004	151						
005	152						
006	153						
007	154						
008	155	198:11:35 5:45				Out of Focus, Astronaut Arm	
009	156					Zone Forming Fungi Experiment (NA-147)	
010							
011	AST-3-157					Cosmonaut Kubasev in Soyuz	
012	158						
013	159					Cosmonauts Leonov and V. Kubasev in Soyuz	
014	160					Astronaut Stafford in Tunnel at Connectors	
015	161						
016	AST-3-162					Astronauts Stafford and Slayton in Tunnel Area	
017	163					Cosmonaut Leonov with 16-mm Camera	
018	164					Underexposed, Stafford's Hands, Docking Certificate	
019	165					Stafford Signs Docking Certificate for FAI	
020	166					Stafford Signs First International Space Docking Certificate for FAI	
021	AST-3-167					Leonov	
022	168						
023	169					Slayton	
024	170						
025	171					Kubasev	
026	AST-3-172						
027	173					Stafford Signs Russian Copy of 1972 USA-USSR Agreement	
028	174						
029	175					Stafford and Slayton with Soyuz Food Tubes	
030	176						

Frame No.	NASA JSC Photo No.	Time of Photo GMT	Rev. No.	Altitude (km)	Lens (mm)	Photograph Description, Location, Subject, etc.
031	AST-3-177				35	Stafford and Slayton with Soyuz Food Tubes
032	178				"	Stafford, Leonov and Kubasov Eating in Soyuz
033	179				"	Stafford Eating in Soyuz
034	180				"	Stafford and Kubasov Eating in Soyuz
035	181				"	Stafford and Leonov with Zone Forming Fungus Experiment
036	AST-3-182				"	" " " " " "
037	183				"	View Through Tunnel into Docking Module
038	184				"	Leonov with Soyuz 16-mm Camera
039	185				"	Leonov and Kubasov with TK-6 Soyuz Camera
040	186				"	Leonov in Soyuz
041	AST-3-187				"	Kubasov with TK-6 Camera
042	188				"	Stafford and Leonov in Soyuz
043	189				"	" " " " " "
044	190				"	Stafford and Leonov in Tunnel with 16-mm Camera
045	191				"	" " " " " "
046	AST-3-192	52:40			"	Zone Forming Fungus Experiment (VA-147)
047	193	"			"	" " " " " "
048	194	"			"	" " " " " "
049	195	60:01			"	" " " " " "
050	196	"			"	" " " " " " Out of Focus
051	AST-3-197	"			"	" " " " " "
END OF ROLL						

APOLLO SOYUZ TEST PROJECT (Stafford-Brand-Slayton) JULY 15-24, 1975

Film/Magazine Identification No.		Laboratory		Camera		Film		Data	
CI-17		Roll No.		ASA Modified		ASA		ASA	
Frame No.		Time of Photo		Rev.		Altitude		Lens	
AST-4-198		GMT		No.		(km)		(mm)	
Photo No.		GET							
001	AST-4-198	205:17:13	213:23	136		221		35	Overexposed, Greece, Kikladhes Islands, Aegean Sea
002	-199								Crete
003	-200								
004	-201					220			Egypt, Mediterranean Sea, Ras Alam El Rum
005	-202								Matruh
006	AST-4-203	205:17:14	213:24						
007	-204								Ras Kenayis
008	-205								El Alamein
009	-206	205:19:45	215:55	137		219			Nile River, El Faiyum
010	-207					216			California Coast Looking East
011	AST-4-208								
012	-209	205:19:46	215:56			217			
013	-210								California-Nevada Looking East
014	-211								California Looking South
015	-212	205:19:47	215:57			218			California-Nevada, Mono Lake Looking South
016	AST-4-213								Utah, Great Salt Lake
017	-214	205:19:48	215:58						Wyoming-Utah
018	-215								Wyoming, Clouds
019	-216								Clouds
020	-217								
021	AST-4-218								
022	-219								
023	-220								
024	-221	205:20:48	216:58	138		222			Debris From Service Module Jettison, Camera Motion
025	-222								
026	AST-4-223								
027	-224								
028	-225								
029	-226								
030	-227								

Frame No.	NASA JSC Photo No.	Time of Photo GMT	Rev. No.	Altitude (m)	Lens (mm)	Photograph Description, Location, Subject, etc.
031	AST-4-228		130		35	Overexposed, Earth-Sky
032	-229		"	"	"	"
033	-230		"	"	"	"
034	-231		"	"	"	"
035	-232		"	"	"	• Spacecraft Window, Reentry
036	AST-4-233		"	"	"	• Reentry
037	-234		"	"	"	• Clouds, Reentry, Fireball
038	-235		"	"	"	• Reentry
039	-236		"	"	"	• Clouds, Reentry
040	-237		"	"	"	• Reentry
041	AST-4-238		"	"	"	• Reentry
042	-239		"	"	"	• Clouds, Reentry, Fireball
043	-240		"	"	"	• Reentry
044	-241		"	"	"	• Reentry
045	-242		"	"	"	• Clouds, Reentry, Fireball
046	AST-4-243		"	"	"	• Reentry, Fireball
047	-244		"	"	"	• Clouds, Reentry, Fireball
048	-245		"	"	"	• Reentry, Fireball
049	-246		"	"	"	• Clouds, Reentry, Fireball
050	-247		"	"	"	• Reentry, Fireball
051	AST-4-248		"	"	"	• " " "
052	-249		"	"	"	• " " "
053	-250		"	"	"	• " " "
054	-251		"	"	"	• " " "
055	-252		"	"	"	• " " "
056	AST-4-253		"	"	"	• " " "
057	-254		"	"	"	• " " "
058	-255		"	"	"	• " " "
059	-256	205:21:15	"	"	"	• Main Parachutes
060	-257	217:25	"	3 Km	"	• Partial Frame
END OF ROLL						

APOLLO SOYUZ TEST PROJECT (Stafford-Brand-Slayton) JULY 15-24, 1975

File/Magazine Identification No.	CI-16	Laboratory Roll No.	5	Camera Nikon 35-mm, Single Lens Reflex, Film 35-mm Ektachrome EF, Type SO-168, Data ASA = 500 (Laboratory Adjusted)		
Frame No.	NASA JSC Photo No.	Time of Photo GMT	Rev. No.	Altitude (ft.)	Lens (mm)	Photograph Description, Location, Subject, etc.
001						Fogged, Out of Focus
002	AST-S-258					Stafford in Docking Module
003	259					Stafford and Leonov in Docking Module
004	260					
005	261					Kubasov with Flight Plan
006	AST-S-262					Commemorative Plaques
007	263					
008	264					FBI Certificate of Docking with 5 Signatures
009	265					
010	266					Kubasov Holds FBI Certificate of Docking
011	AST-S-267					" " " " " " " "
012	268					Brand in Soyuz
013	269					
014	270					Medical Supplies, Food on Soyuz Table
015	271					Kubasov Opens Food Can in Soyuz
016	AST-S-272					Kubasov at Table in Soyuz
017	273					Leonov in Soyuz
018	274					Leonov with Drawing He Made of Stafford
019	275					
020	276					Stafford in Soyuz
021	AST-S-277					" " " " " " " "
022	278					Leonov in Soyuz
023	279					
024	280					Underexposed, Flash Failure
025	281					
026	AST-S-282					Leonov and Kubasov in Soyuz
027	283					Wrist Watches, Hands of Stafford and Leonov
028	284					Leonov with Two Wrist Watches
029	285					Kubasov in Soyuz
030	286					Leonov and Stafford with Microbial Exchange Experiment

Frame No.	NASA JSC Photo No.	Time of Photo GMT	Rev. No.	Altitude (Km)	Lens (mm)	Photograph Description, Location, Subject, etc.
031	AST-5-287					Stafford and Leonov with Microbial Exchange Experiment
032	288					" " " " " "
033	289					" " " " " "
034	290					Stayton in Tunnel
035	291					Kubasov in Soyuz
036	AST-5-292					Underexposed, Flash Failure
037	293					Kubasov in Soyuz with TK-6 Camera
038	294					Leonov in Soyuz
039	295					Leonov with 16-mm Camera
040	296					Stafford and Leonov in Soyuz
041	AST-5-297					" " " " " "
042	298					" " " " " "
043	299					" " " " " "
044	300					Stafford, Stayton, and Leonov in Soyuz
045	301					
046	AST-5-302					Stafford at Tunnel with Spacecraft Connectors
047	303					Electrical Connectors in Tunnel, Stafford
048	304					Kubasov in Soyuz
049	305					Leonov with 16-mm Camera, Kubasov in Soyuz
050	306					Leonov in Soyuz
051	AST-5-307					Leonov and Kubasov in Soyuz
052	308					Kubasov in Soyuz
053	309					Kubasov in Tunnel
054	310					Leonov and Kubasov in Tunnel
055	311					
056	AST-5-312					" " " " " "
057	313					" " " " " "
058	314					" " " " " "
059	315					TV Camera in Soyuz
060	316					M-148 Equipment, Tunnel Door Ajar
						Zone Forming Fungus Experiment (PA-147)
						END OF ROLL

APOLLO SOVUZ TEST PROJECT (Stafford-Brand-Slayton) JULY 15-24, 1975

Film/Magazine Identification No.	CI-15	Laboratory Roll No.	6	Camera Data	Nikon, 35-mm, Single Lens Reflex, 35-mm Ektachrome EF, Type SO-168	Film Data	ASA = 500 (Laboratory Adjusted)
Frame No.	NASA JSC Photo No.	Time of Photo GMT	SET	Rev. No.	Altitude (km)	Lens (mm)	Photograph Description, Location, Subject, etc.
001	AST-6-317					35	Partial - Brand in Tunnel
002	318						Brand in Tunnel
003	319						Apollo Interior
004	320						
005	321						Sleyton in Docking Module
006	AST-6-322			123			" " "
007	323						" " "
008	324						Clouds Over Pacific Ocean
009	325						" " "
010	326						" " "
011	AST-6-327						" " "
012	328	204:11:39	193:49		223		Washington-British Columbia, Olympic Mts., Vancouver, Puget Sound
013	329				"		Seattle, Puget Sound, Victoria
014	330	204:11:42	193:52		224		Saskatchewan, Lost Mountain Lake
015	331	204:12:43	194:53	124	247		Australia, Cape York, Gulf of Carpentaria
016	AST-6-332						Clouds Over Pacific Ocean
017	333						" " "
018	334						" " "
019	335						" " "
020	336	204:13:13	195:23		223		Clouds, British Columbia, Mountains
021	AST-6-337						British Columbia, Rocky Mountains, Clouds
022	338	"	"		"		" " "
023	339	"	"		224		" " "
024	340	204:13:14	195:24		"		" " -Alberta, Rocky Mountains, Clouds
025	341	204:13:26	195:36	125	"		Clouds, Terminator
026	AST-6-342	"	"		"		" " "
027	343	"	"		"		" " "
028	344						Stafford and Brand in Apollo
029	345						" " "
030	346	204:14:58	197:08				Zone Forming Fungl Experiment (PA-147)

Frame No.	NASA JSC Photo No.	Time of Photo GMT	Rev. No.	Altitude (Km)	Lens (mm)	Photograph Description, Location, Subject, etc.
031	AST-6-347	204:14:58			35	Zone Forming Fungi Experiment (MA-147)
032	348	204:15:00			"	Crystal Growth Experiment (MA-028)
033	349	"			"	"
034	350	"			"	"
035	351	"			"	"
036	AST-6-352				"	Urine Dump
037	353				"	"
038	354				"	"
039	355				"	"
040	356				"	"
041	AST-6-357				"	"
042	358				"	"
043	359				"	"
044	360				"	"
045	361				"	Slayton in Apollo
046	AST-6-362				"	Stafford in Apollo
047	363				"	inside Apollo
048	364				"	Crystal Growth Experiment (MA-028)
049	365	205:10:56			"	"
050	366				"	"
051	AST-6-367	"			"	"
052	368	"			"	"
053	369	205:11:04			"	Zone Forming Fungi Experiment (MA-147)
054	370				"	Brand in Apollo
055	371				"	"
056	AST-6-372				"	"
057	373				"	"
058	374				"	Stafford in Apollo
059	375				"	"
060	376				"	"
END OF ROLL						

APOLLO SOYUZ TEST PROJECT (Stafford-Brand-Slayton) JULY 15-24, 1975

Film/Magazine Identification No.		Laboratory Roll No.		Camera Nikon, 35-mm, Single Lens Reflex, Film 35-mm Ektachrome EF, Type SO-168 Data NASA Modified		Data ASA = 500 (Laboratory Adjusted)	
Frame No.	NASA JSC Photo No.	Time of Photo GMT	Rev. No.	Altitude (Km)	Lens (mm)	Photograph Description, Location, Subject, etc.	
001	AST-7-377	203:18:53	106	210	35	Arizona, Millicox Lake	
002	378	203:18:54	"	"	"	New Mexico-Colorado-Arizona-Utah, Albuquerque, Rio Grande, 4 Corners	
003	379	203:18:55	"	"	"	New Mexico-Colorado, San Luis Valley, Rio Grande	
004	380	203:18:56	"	219	"	Kansas-Nebraska, Republican River, Looking North	
005	381	203:18:57	"	"	"	Kansas-Nebraska, Republican and Pcate Rivers, Looking North, Underexposed	
006	AST-7-382	203:18:58	"	220	"	Nebraska-South Dakota, Missouri River, Looking North, Underexposed	
007	383	203:18:59	"	221	"	South Dakota-North Dakota, Looking North, Underexposed	
008	384	"	"	"	"	Iowa-Wisconsin, Mississippi River, Underexposed	
009	385	203:19:00	"	"	"	Wisconsin-Iowa, Mississippi River, Underexposed	
010	386	"	"	"	"	Wisconsin-Michigan, Green Bay, Lake Winnebago, Underexposed	
011	AST-7-397	203:19:01	"	222	"	Michigan, Keweenaw Peninsula, Lake Superior, Underexposed	
012	388	"	"	"	"	Ontario, Lake Superior, Underexposed	
013	389	203:19:02	"	"	"	Canada, Clouds, Underexposed	
014	390	203:19:03	"	223	"	Clouds, Underexposed	
015	391	"	"	"	"	Canada, Clouds Near Sunset, Underexposed	
016	AST-7-392	203:19:04	107	"	"	Clouds Near Sunset, Quebec Underexposed	
017	393	203:19:06	"	"	"	Morocco, Mediterranean Coast, Underexposed	
018	394	"	"	"	"	Clouds Over Tasman Sea, Near New Zealand	
019	395	203:19:19	"	222	"	New Zealand (North Island), North Cape	
020	396	"	"	"	"	California Coast, San Francisco-Estero Bay, Sierra Nevada, Looking East	
021	AST-7-397	203:20:02	"	"	"	California, San Joaquin Valley, Mojave Desert, Sierra Nevada, Looking Southeast	
022	399	"	"	"	"	Utah, Great Salt Lake and Desert, Wasatch Mountains, Looking East	
023	399	203:20:03	"	222	"	Utah-Wyoming, Great Salt Lake, Wasatch Mountains, Looking East Northeast	
024	400	203:20:27	"	"	"	Sierra Nevada, Looking Southeast	
025	401	"	"	"	"	Sierra Nevada, Looking Southeast	
026	AST-7-402	"	"	"	"	Utah, Great Salt Lake and Desert, Wasatch Mountains, Looking East	
027	403	"	"	"	"	Utah-Wyoming, Great Salt Lake, Wasatch Mountains, Looking East Northeast	
028	404	203:20:29	"	"	"	Utah, Great Salt Lake and Desert, Wasatch Mountains, Looking East	
029	405	"	"	"	"	Utah-Wyoming, Great Salt Lake, Wasatch Mountains, Looking East Northeast	
030	406	203:20:30	"	"	"	Utah-Wyoming, Great Salt Lake, Wasatch Mountains, Looking East Northeast	

Frame No.	NASA JSC Photo No.	Time of Photo GMT	Rev. No.	Altitude (Km)	Lens (mm)	Photograph Description, Location, Subject, etc.
031	AST-7-407		108		35	Stafford in Apollo
032	408		"		"	"
033	409		"		"	Astronaut in Tunnel
034	410		"		"	Slayton with Medical Sensors
035	411		"		"	"
036	AST-7-412		"		"	Stafford in Apollo
037	413		"		"	Looking from Command Module into Docking Module
038	414	203:21:50	"	216	"	Clouds over Pacific Ocean at Hawaii
039	415		"	222	"	" off Oregon
040	416	203:22:00	"	225	"	Washington-British Columbia, Olympic Mountains, Puget Sound, Seattle
041	AST-7-417		"	"	"	"
042	418		"	"	"	"
043	419	204:01:25	"		"	Zone Forming Fungus Experiment (WA-147)
044	420		"		"	"
045	421	204:07:03	"		"	Inside of Apollo, Light Flash Experiment (WA-166)
046	AST-7-422		"		"	"
047	423		"		"	"
048	424		"		"	"
049	425	204:08:29	112	214	"	Indonesia, Sebang Island, Sumatra
050	426		"		"	Thailand, Phuket, Waves in Andaman Sea
051	AST-7-427	204:08:30	"		"	Thailand, Waves in Andaman Sea
052	428		"		"	Thailand-Burma, Aru Peninsula, Waves in Andaman Sea
053	429	204:08:35	"		"	Crystal Growth Experiment (WA-028)
054	430		"		"	"
055	431		"		"	"
056	AST-7-432		"		"	"
057	433		"		"	Out of Focus
058	434	204:21:20	"		"	Zone Forming Fungus Experiment (WA-147)
059	435		"		"	Crystal Growth Experiment (WA-028)
060	436		"		"	"
061	AST-7-437		"		"	"
062	438		"		"	"
063	439		"		"	"
064	440		"		"	Slayton with Flight Plan in Apollo
END OF ROLL						

APOLLO SOYUZ TEST PROJECT (Stafford-Brand-Slayton) JULY 15-24, 1975

Film/Magazine Identification No.		CI-20	Laboratory Roll No.	8	Camera Data	35-mm, Single Lens Reflex, Film	35-mm Ektachrome EF, Type SO-168, ASA = 500 (Laboratory Adjusted)
Frame No.	NASA JSC Photo No.	Time of Photo GMT	GET	Rev. No.	Altitude (km)	Lens (mm)	Photograph Description, Location, Subject, etc.
001	AST-8-441	202:17:05	142:15	91	"	35	Overexposed, Clouds Over Atlantic Ocean
002	442	"	"	"	"	"	"
003	443	"	"	"	"	"	"
004	444	"	"	"	"	"	"
005	445	"	"	"	"	"	"
006	AST-8-446	202:19:16	143:26	"	"	300	"
007	447	"	"	"	"	"	"
008	448	202:19:17	143:27	"	"	"	"
009	449	202:19:20	143:30	"	"	"	"
010	450	202:19:21	143:31	"	"	"	"
011	AST-8-451	"	"	"	"	"	"
012	452	"	"	"	"	"	"
013	453	"	"	"	"	"	"
014	454	"	"	"	"	"	"
015	455	"	"	"	"	"	"
016	AST-8-456	"	"	"	"	"	"
017	457	"	"	"	"	"	"
018	458	202:19:26	143:36	92	"	35	"
019	459	"	"	"	"	"	"
020	460	202:19:45	143:55	"	"	"	"
021	AST-8-461	202:19:45	143:55	"	"	"	"
022	462	202:20:15	144:25	"	"	"	"
023	463	"	"	"	"	"	"
024	464	"	"	"	"	"	"
025	465	"	"	"	"	"	"
026	AST-8-466	"	"	"	"	"	"
027	467	"	"	"	"	"	"
028	468	"	"	"	"	"	"
029	469	"	"	"	"	"	"
030	470	"	"	"	"	"	"

Frame No.	NASA JSC Photo No.	Time of Photo GMT	Photo GMT	Rev. No.	Altitude (ft)	Lens (mm)	Photograph Description, Location, Subject, etc.
031	AST-8-471	203:10:15	162:25	104	35	"	Peru, Nazca
032	472	203:10:16	162:26	"	"	"	" , Andes, Underexposed
033	473	"	"	"	"	"	" , Rio Ulayali (Amazon), Rio Tambo
034	474	"	"	"	"	"	Brazil-Peru, Amazon, Ucayali (Amazon), Rio Marañon, Iquitos
035	475	203:10:17	162:27	"	"	"	Columbia-Peru-Brazil, Amazon River, Javari River, Leticia
036	AST-8-476	"	"	"	"	"	Brazil-Peru-Columbia, " " " "
037	477	203:10:18	162:28	"	"	"	Brazil, Amazon River, Japura River, Fonte Boa
038	478	203:10:20	162:30	"	"	"	" , Rio Negro, Ilha Acarabú
039	479	203:10:22	162:32	"	"	"	Venezuela-Guyana, Mouths of the Orinoco
040	480	"	"	"	"	"	" " " " " "
041	AST-8-481	"	"	"	"	"	" " " " " "
042	482	"	"	"	"	"	" " " " " "
043	483	203:10:43	162:53	"	"	"	Crystal Growth Experiment (PA-C28)
044	484	"	"	"	"	"	" " " " " "
045	485	"	"	"	"	"	" " " " " "
046	AST-8-486	"	"	"	"	"	" " " " " "
047	487	203:10:51	163:01	"	"	"	Zone Forming Fungus Experiment (PA-147)
048	488	"	"	"	"	"	Egg Packs, Killifish Experiment (PA-161)
049	489	"	"	"	"	"	" " " " " "
050	490	"	"	"	"	"	" " " " " "
051	AST-8-491	"	"	"	"	"	" " " " " "
052	492	"	"	"	"	"	" " " " " "
053	493	"	"	"	"	"	" " " " " "
054	494	"	"	"	"	"	" " " " " "
055	495	203:13:33	165:43	106	"	"	Fish Pack
056	AST-8-496	"	"	"	"	"	Nova Scotia-New Brunswick, Prince Edward Island, Cobequid Bay
057	497	"	"	"	"	"	" " " " " "
058	498	"	"	"	"	"	Prince Edward Island
059	499	"	"	"	"	"	Brand in Apollo
060	500	"	"	"	"	"	Stafford in Apollo
061	AST-8-501	"	"	"	"	"	" " " " " "
062	502	"	"	"	"	"	Coyote in Apollo
063	503	"	"	"	"	"	Apollo Instrument
END OF ROLL							

APOLLO SOYUZ TEST PROJECT (Stafford-Brand-Slayton) JULY 15-24, 1975

Film/Magazine Identification No.		CX-11	Laboratory		Camera Data	70-mm. Film Data	70-mm Ektachrome, MS. Type QX-807, ASA = 64
Frame No.	NASA JSC Photo No.	Time of Photo	Rev. No.	Altitude (ft)	Lens (mm)	Photograph Description, Location, Subject, etc.	
001	AST-9-504		42		50	Out of Focus, Clouds over Atlantic Ocean	
002	505				"	"	
003	506				"	"	
004	507				"	"	
005	508				"	"	
006	AST-9-509				"	Clouds over Atlantic Ocean	
007	510				"	"	
008	511				"	"	
009	512	199:12:50	65:00	225	"	Libya-Tunisia, Gafara Desert	
010	513				"	Tripoli, Zarzis, Mediterranean Coast	
011	AST-9-514				"	"	
012	515				"	Mediterranean Coast, Jerba Island, Tripoli	
013	516				"	Tripoli, Al Khams, Mediterranean Coast	
014	517				"	Misratah, Mediterranean Coast	
015	518	199:12:51	65:01	226	"	Italy-Greece-Albania, Sicily, Brindisi, Korfu	
016	AST-9-519				"	Greece, Korfu, Peloponnesus, Patrai, Cephalopia	
017	520	199:12:52	65:02	227	"	Cevkas, Peloponnesus, Gulf of Korinth, Zante	
018	521				"	Athens, Peloponnesus, Evvolia, Skorplos, Volos	
019	522	199:18:39	70:49	222	"	Guatemala-Mexico, San Jose, Champerico, Pacific Coast	
020	523				"	Champerico, Pacific Coast	
021	AST-9-524				"	"	
022	525				"	Mexico, Yucatan, Quintana Roo, Cabo Catoche	
023	526	199:18:40	70:50		"	"	
024	527				"	"	
025	528	199:18:41	70:51	223	"	Cuba, Cape San Antonio, Yucatan Channel	
026	AST-9-529				"	Gulf of Mexico	
027	530				"	West of Florida	
028	531				"	Clouds over Atlantic Ocean	
029	532				"	"	
030	533				"	"	

Frame No.	NASA JSC Photo No.	Time of Photo GMT	Photo CET	Rev. No.	Altitude (Ks)	Lens (mm)	Photograph Description, location, subject, etc.
031	AST-9-534			46		50	Clouds over Atlantic Ocean
032	535			"		"	" " " "
033	536			"		"	" " " "
034	537	199:18:55	71:05	"	231	"	Clouds over Newfoundland
035	538			"		"	" " " "
036	AST-9-539			"		"	Clouds over Atlantic Ocean
037	540			"		"	" " " "
038	541			"		"	" " " "
039	542			"		"	" " " "
040	543			"		"	" " Pacific Ocean
041	AST-9-544	199:20:10	72:20	"	224	"	Mexico, Baja California, Sonora, Gulf of California looking North
042	545	199:20:11	72:21	"	"	"	Clouds over New Mexico-Texas
043	546	199:20:12	72:22	"	225	"	Clouds over Pacific Ocean
044	547			56		"	" " " "
045	548			"		"	" " " "
046	AST-9-549	200:10:54	87:04	"	221	"	Chad-Niger-Nigeria-Cameroon, Lake Chad
047	550			"	"	"	" " " "
048	551	200:10:55	87:05	"	222	"	Chad, Bodale Basin, Borkou, Overexposed
049	552	200:10:56	87:06	"	"	"	Libya-Egypt-Sudan, Jebel Uwaynat, Overexposed
050	553			"		"	" " " "
051	AST-9-554	200:10:57	87:07	"	"	"	Egypt, Cairo, El Falyum, Nile Riv., Gulf of Suez
052	555	200:11:00	87:10	"	223	"	" " " " , Suez Canal, Israel-Ly, Zagazig, Nile Riv.
053	556			"	"	"	" " " " , Suez Canal, Tanta, Suez, El Mansura
054	557			"	"	"	" " " " , Suez Canal, Port Said to Suez, El Mansura
055	558			"	"	"	" " " "
056	AST-9-555	200:11:01	87:11	"	224	"	Saudi Arabia-Israel-Egypt-Jordan, Dead Sea, Gulf of Amaba
057	560	200:11:02	87:12	"	"	"	Lebanon-Jordan-Israel-Syria, Dead Sea, Sinai, Dead Sea
058	561			"	"	"	Israel-Jordan-Syria-Lebanon, Dead Sea, Sea of Galilee, Beirut, Damascus
059	562			"	"	"	Jordan-Syria-Lebanon-Israel, Sea of Galilee, Beirut
060	563			"	225	"	" " " "
061	AST-9-564	200:11:05	87:15	"	"	"	Syria-Lebanon-Jordan-Israel-Egypt, Gaza, Beirut, Hama
062	565			"	226	"	USSR, Kazakh S.S.R., Caspian Sea, Poluostrov Kamyshlak
063	566	200:11:07	87:17	"	232	"	USSR, " " " " , RSFSR, Semipalatinsk, Irtysh Riv.
064	567			"	"	"	" " " "
065	568			"	"	"	" " " "

Frame No.	NASA JSC Photo No.	Time of Photo GYT	Rev. No.	Altitude (Km)	Lens (mm)	Photograph Description, Location, Subject, etc.
066	AST-9-569	200:11:17 87:17	56	232	50	USSR, Kazakh S.S.R., Semipalatinsk, Irtysh River
067	570	200:12:30 88:40	57	221	"	Soyuz-19, (Partial View) Range = 25 Meters
068	571	200:12:31 88:41	"	"	"	" , Docking Module, End, Range = 23 Meters
069	572	"	"	222	"	" " End, Range = 23 Meters
070	573	200:12:32 88:42	"	"	"	" " " "
071	AST-9-574	200:12:35 88:45	"	"	"	" , Docking, Range = 7 Meters
072	575	"	"	"	"	" " " "
END OF ROLL						

APOLLO SOYUZ TEST PROJECT (Stafford-Brand-Slayton) JULY 15-24, 1975

Film/Magazine Identification No.	CI-18	Laboratory Roll No.	10	Camera Data	Nikon, 35-mm, Single Lens Reflex, Film ASA Modified	35-mm Ektachrome EF, 50-168, ASA = 500 (Laboratory Adjusted)
Frame No.	NASA JSC Photo No.	Time of Photo GMT	Rev. No.	Altitude (ft)	Lens (mm)	Photograph Description, Location, Subject, etc.
001	AST-11-641	201:01:12 125:22	80		35	Crystal Growth Experiment (MA-023)
002	642	"	"	"	"	"
003	643	"	"	"	"	"
004	644	"	"	"	"	"
005	645	201:01:15 125:25	"	220	"	Australia, Northern Territory, Northwest of Alice Springs
006	AST-11-646	"	"	"	"	"
007	647	"	"	"	"	"
008	648	201:01:16 125:26	"	"	"	West Australia, Joseph Bonaparte Gulf
009	649	"	"	"	"	Anson Bay, Point Blaise
010	650	"	"	219	"	Port Darwin, Melville Island
011	AST-11-651	"	"	"	"	Cobourg Peninsula
012	652	"	"	"	"	Arnhem Land
013	653	"	"	"	"	Cobourg Peninsula
014	654	201:01:18 125:28	"	"	"	Indonesia, West Irian, Japan Island
015	655	"	"	218	"	Kamberano River, Japan Island
016	AST-11-656	"	"	"	"	Clouds Over Pacific Ocean, North of New Guinea
017	657	"	"	"	"	"
018	658	"	"	"	"	"
019	659	"	"	"	"	"
020	660	201:01:28 125:33	81	"	"	Zone Forming Fungl Experiment (MA-147)
021	AST-11-661	"	"	"	"	"
022	662	"	"	"	"	Clouds Over Indian Ocean
023	663	"	"	"	"	"
024	664	201:02:45 126:56	"	216	"	Indonesia, Java, Madura Island, Surabaya
025	665	"	"	"	"	"
026	AST-11-666	"	"	"	"	"
027	667	201:02:47 126:57	"	217	"	Borneo, Laut Island, Clouds
028	668	"	"	"	"	"
029	669	201:02:48 126:58	"	"	"	Clouds Over Celebes Sea
030	670	201:02:49 126:59	"	"	"	Philippines, Negros, Mindanao

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NAME	MASS. ON	TIME OF PHOTO	REV.	Altitude	Lens	Photograph Description, Location, Subject, etc.
No.	Drift No.	SW	No.	(ft)	(mm)	
036	AST-11-676	201:11:54	87	223	35	Italy, Gargano Promontory, Adriatic Sea, Haze
037	677	201:11:59	88	222	"	Argentina, Looking Northwest, Atlantic-Mediterranean Sea, Pazy
038	678	201:12:00	"	"	"	Argentina, Andes, Clouds Over Low Coastal Areas
039	679	201:12:02	"	"	"	Clouds, Argentina, Salt Pans in Chaco
040	680	"	"	"	"	"
041	AST-11-681	201:12:04	"	221	"	Clouds, Overexposed
042	682	"	"	"	"	Brazil, Golas, Clouds, Haze
043	683	"	"	"	"	Clouds Over Atlantic Ocean
044	684	"	"	"	"	"
045	685	201:12:23	"	224	"	Portugal, Cabo Sao Vincente, Faro
046	AST-11-686	"	"	"	"	"
047	687	"	"	"	"	Portugal-Spain, Looking North, Porto
048	688	201:12:24	"	225	"	France-Spain, Mediterranean Sea, Golfe Du Lion, Perpignan
049	689	"	"	"	"	France, Kereille, Provence, Mouth of Rhone, Cote d'Azur
050	690	201:12:30	"	"	"	Crystal Growth Experiment (VA-028)
051	AST-11-691	"	"	"	"	"
052	692	"	"	"	"	"
053	693	"	"	"	"	"
054	694	201:12:40	"	"	"	Zone Forming Fungl Experiment (VA-147)
055	695	"	89	"	"	"
056	AST-11-696	201:12:35	"	217	"	Clouds Over Pacific Ocean
057	697	"	"	218	"	Peru, Andes Mountains
058	698	201:12:36	"	216	"	"
059	699	"	"	"	"	Blank
060	700	201:12:37	"	"	"	Clouds Over Amazon Basin, Looking West, Overexposed
061	AST-11-701	201:12:38	"	"	"	"
062	702	"	"	"	"	Brazil, Amazon Basin, Japura River, Overexposed
END OF ROLL						

APOLLO SOUVENIR TEST PROJECT (Stafford-Brand-Slayton) JULY 15-24, 1975

Film/Magazine Identification No.		Laboratory CX-18 Roll No.		Camera Nikon, 35-mm, Single Lens Reflex, Film 35-mm, Tachrome MS, Type QX-807		Data ASA = 64	
Frame No.	NASA JSC Photo No.	Time of Photo GMT	Rev. No.	Altitude (km)	Lens (mm)	Photograph Description, Location, Subject, etc.	
001	AST-10-576		134		35	Clouds Over Southeastern Pacific Ocean	
002	-577					Clouds Over Pacific Ocean Near Galapago Islands	
003	-578	201:15:09	211:19	210		Ecuador, Galapago Islands, Isla Isabela	
004	-579						
005	-580					Clouds Over Pacific, Southwest of Costa Rica	
006	AST-10-581	205:15:12	211:22	211		Costa Rica-Nicaragua, Puerto Limon, Mouth of San Juan	
007	-582					Lake Nicaragua, Looking Northwest	
008	-583					Costa Rica, Caribbean Coast, Puerto Limon	
009	-584					Caribbean Sea, Clouds	
010	-585	205:15:13	211:23	211		Colombia, Isla Providencia, Quita Sueno Bank	
011	AST-10-586	205:15:14	211:24	212		Jamaica	
012	-587		135				
013	-588	205:15:15	211:25	213		Cuba, Oriente-Camaguey, Manzanillo, Jardines De La Reina	
014	-589					Golfo De Guacahayabo	
015	-590					Oriente, Santiago De Cuba, Guantaramo Bay	
016	AST-10-591						
017	-592	205:15:16	211:26	214		Bahamas, Long Island	
018	-593					Crooked-Acklins-Long Islands	
019	-594					San Salvador Islands	
020	-595					Long-Great Exuma-San Salvador	
021	AST-10-596	205:15:19	211:29	216		Bermuda	
022	-597					Clouds Over Atlantic, Overexposed	
023	-598						
024	-599	205:15:32	211:42	222		Ireland, Coast of Cork, Mostly Clouds	
025	-600					England, Hartland Point, Lundy Island, Carmarthen Bay	
026	AST-10-601	205:15:33	211:43			Netherlands, Europort, Nord Holland	
027	-602					Ijsselmeer	
028	-603					Germany, Mostly Clouds	
029	-604					Central Europe, Hazy	
030	-605						

Frame No.	NASA JSC Photo No.	Time of Photo CWT	Photo GET	Rev. No.	Altitude (ft)	Lens (mm)	Photograph Description, Location, Subject, etc.
031	AST-10-606	205:15:37	211:47	135	222	35	Rumania-USSR, Moldavia, Transylvania, Hazy
032	-607	"	"	"	"	"	" , Mouth of Danube, Moldavia, Hazy
033	-608	"	"	"	"	"	" " " "
034	-609	"	"	"	"	"	" " " "
035	-610	205:15:38	211:48	"	221	"	USSR-Crimea, Hazy
036	AST-10-611	205:15:39	211:49	"	"	"	Turkey, Black Sea Coast, Sinop, Very Hazy
037	-612	"	"	"	"	"	USSR, Georgia, Caucasus Mountains, Hazy
038	-613	"	"	"	"	"	" , Turkey, Hazy
039	-614	"	"	"	"	"	" , Turkey, Hazy
040	-615	"	"	"	"	"	Turkey, Lake Van
041	AST-10-616	"	"	"	"	"	" " " , Hazy
042	-617	"	"	"	"	"	" " " , Hazy
043	-618	205:15:40	211:50	"	220	"	Iran, Lake Urmia, Hazy
044	-619	"	"	"	"	"	Iran-Turkey-Iraq, Lake Urmia, Kukan Reservoir
045	-620	"	"	"	"	"	Iran, Zagros Mountains, Hazy
046	AST-10-621	"	"	"	"	"	" " " "
047	-622	"	"	"	"	"	" " " "
048	-623	205:15:41	211:51	"	"	"	" " " , Very Hazy
049	-624	"	"	"	"	"	" " " "
050	-625	205:16:47	212:57	"	211	"	Mexico, Yucatan Coast, Hazy
051	AST-10-626	"	"	"	"	"	" Central Plateau, Hazy
052	-627	205:16:48	212:58	"	210	"	Gulf of Mexico
053	-628	205:16:54	213:04	136	218	"	" "
054	-629	205:16:56	213:06	"	219	"	DEL-TC-VN, Chesapeake Bay, Cape Charles
055	-630	"	"	"	"	"	Southern New England, Cape Cod, Block Island, Nantucket
056	AST-10-631	"	"	"	219	"	" " , Newport, Cape Cod, Martha's Vineyard
057	-632	205:16:58	213:08	"	"	"	Massachusetts, Boston, Cape Cod, Cape Ann, Nantucket
058	-633	"	"	"	220	"	Prince Edward Island, Nova Scotia-New Brunswick, Chignecto Bay
059	-634	"	"	"	"	"	" " " "
060	-635	205:17:04	213:19	"	222	"	France, St. Nazaire, Vannes, La Rochelle, Rochefort
061	AST-10-636	"	"	"	"	"	" " " , La Rochelle, Bordeaux
062	-637	205:17:10	213:20	"	"	"	" , Provence, Cote D'Azur, Grotte Du Lion
063	-638	"	"	"	"	"	" , Maritime Alps
064	-639	"	"	"	"	"	" , Maritime Alps

END OF ROLL

APOLLO SOYUZ TEST PROJECT (Stafford-Brand-Slayton) JULY 15-24, 1975

Film/Magazine Identification No.	IF-01	Laboratory Roll No.	12	Camera Assembled, Reflex, 70-mm, Data Model 590EL, NASA Modified	Film 70-mm Ektachrome, Infrared Aerochrome Data Type 2443, ASA = 55 (Approximate)	
Frame No.	NASA JSC Photo No.	Time of Photo GMT	Rev. No.	Altitude (km)	Lens (mm)	Photograph Description, Location, Subject, etc.
001	AST-12-704	199-08:03	60:13	225	50	Cut of Focus, South Africa
002	705	"	"	"	"	"
003	706	"	"	"	"	"
004	707	199-08:06	60:16	223	"	"
005	708	"	"	"	"	"
006	AST-12-709	"	"	"	"	"
007	710	199-08:07	60:17	"	"	"
008	711	"	"	"	"	"
009	712	"	"	"	"	"
010	713	199-08:13	60:23	222	"	"
011	AST-12-714	"	"	"	"	"
012	715	"	"	"	"	"
013	716	199-08:15	60:25	"	"	"
014	717	"	"	"	"	"
015	718	"	"	"	"	"
016	AST-12-719	199-08:17	60:27	"	"	"
017	720	"	"	"	"	"
018	721	"	"	"	"	"
019	722	199-08:18	60:28	"	"	"
020	723	"	"	"	"	"
021	AST-12-724	"	"	223	"	"
022	725	199-08:20	60:30	"	"	"
023	726	"	"	"	"	"
024	727	"	"	"	"	"
025	728	"	"	"	"	"
026	AST-12-729	"	"	224	"	"
027	730	"	"	"	"	"
028	731	199-08:21	60:31	"	"	"
029	732	"	"	225	"	"
030	733	199-08:22	60:32	"	"	"

Frame No.	NASA JSC Photo No.	Time of Day	Photo GET	Rev. No.	Altitude (km)	Lens (mm)	Photograph Description, Location, Subject, etc.
031	AST-12-734	199:08:22	60:32	29	225	50	Out of Focus, India
032	735	199:08:23	60:33	"	226	"	"
033	736	"	"	"	"	"	"
034	737	"	"	"	"	"	"
035	738	199:08:24	60:34	"	227	"	"
036	AST-12-739	"	"	"	"	"	"
037	740	"	"	"	"	"	"
038	741	"	"	"	228	"	"
039	742	"	"	"	"	"	"
040	743	199:08:25	60:35	"	"	"	"
041	AST-12-744	"	"	"	"	"	"
042	745	"	"	"	"	"	"
043	746	199:08:26	60:36	"	229	50	"
044	747	"	"	"	"	"	"
045	748	"	"	"	"	"	"
046	AST-12-749	199:08:27	60:37	"	230	"	"
047	750	"	"	"	"	"	"
048	751	"	"	"	"	"	"
049	752	"	"	"	"	"	"
050	753	"	"	"	"	"	"
051	AST-12-754	199:08:28	60:38	"	231	"	"
052	755	"	"	"	"	"	"
053	756	"	"	"	"	"	"
054	757	"	"	"	"	"	"
055	758	"	"	"	"	"	"
056	AST-12-759	199:08:29	60:39	"	"	"	"
057	760	"	"	"	"	"	"
058	761	"	"	"	"	"	"
059	762	"	"	"	"	"	"
060	763	"	"	"	"	"	"
061	AST-12-764	199:08:30	60:40	"	232	"	"
062	765	"	"	"	"	"	"
063	766	"	"	"	"	"	"
064	767	"	"	"	"	"	"
065	768	"	"	"	"	"	"

NASA JSC Photo No.	Time of Photo GMT	Rev. No.	Altitude (km)	Lens (mm)	Photograph Description, Location, Subject, etc.
AST-12-769		39		50	Out of Focus
066					" " "
067	199:09:45	40	222	"	" " " , Red Sea, Danakil
068				"	" " " " "
069	"			"	" " " " "
070	"			"	" " " " "
071					" " " " "
AST-12-774					" " " " "
072				"	" " " " "
073				"	" " " " "
074	199:09:47			"	" " " " , Persian Gulf, Qatar
075	"			"	" " " " " "
076					" " " " " "
AST-12-779					" " " " " "
077	199:09:48		223	"	" " " " , Iran
078				"	" " " " " "
079				"	" " " " " "
080	199:09:49		224	"	" " " " , Iran
081					" " " " " "
AST-12-784					" " " " " "
082			225	"	" " " " " "
083	199:09:54		229	"	" " " " , USSR
084				"	" " " " " "
085	199:09:55		231	"	" " " " , Lake Balkash
END OF ROLL					

Frame No.	NASA JSC Photo No.	Time of Photo GMT	Rev. No.	Altitude (Nm)	Lens (mm)	Photograph Description, Location, Subject, etc.
031	AST-13-819	205:17:11	136	222	50	France, Aquitaine Coast, La Rochelle, Nantes, St. Nazaire
032	820	"	"	"	"	" Bordeaux, Arcachon, La Rochelle
033	821	"	"	"	"	France-Italy, Provence, Maritime Alps, Corsica, Sardinia
034	822	"	"	"	"	"
035	823	"	"	"	"	"
036	AST-13-824	205:17:12	"	"	"	" Corsica, Sardinia
037	825	"	"	"	"	" Elba, Montf Cristo
038	826	"	"	"	"	Italy-France, " " " Roma, Pisa
039	827	"	"	"	"	" " " Roma, Firenze, Pisa, Elba
040	828	"	"	"	"	" " " Elba, Livorno
041	AST-13-829	"	"	"	"	Italy, Roma, Anzio
042	830	"	"	"	"	" Sicily, Palermo
043	831	"	"	"	"	" Ischia Island, Gaeta, Terracina, Sicily, Palermo
044	832	205:17:13	"	"	"	" Sicily, Palermo, Terracina
045	833	213:23	"	"	"	" Palermo, Isola d'Ischia
046	AST-13-834	"	"	221	"	" Reggio Di Calabria, Messina, Mt. Etna (Smoking)
047	835	"	"	"	"	" Mt. Etna (Smoking), Vibo Valentia, Barcellona
048	836	"	"	"	"	" Strait of Messina
049	837	"	"	"	"	" Reggio Di Calabria
050	838	"	"	"	"	" Reggio Di Calabria, Messina
051	AST-13-839	205:17:14	"	"	"	Greece, Cephalonia Island, Zante Island
052	840	213:24	"	"	"	" " " " " Pirgos
053	841	"	"	"	"	" " " " " Ithaca Island
054	842	"	"	"	"	Mediterranean Sea, North of Libya
055	843	"	"	"	"	Libya, Mediterranean Coast
056	AST-13-844	205:17:15	"	220	"	" " "
057	845	213:25	"	"	"	" Tubruk, Mediterranean Coast
058	846	"	"	"	"	Libya-Egypt, Gulf of Salum, Mediterranean Coast
059	847	"	"	"	"	Egypt-Libya, Gulf of Salum, Mediterranean Coast
060	848	"	"	"	"	" " "
061	AST-13-849	"	"	"	"	Egypt, Mediterranean Coast, Ras Kenayis
062	850	"	"	"	"	" " "
063	851	"	"	"	"	" Quattara Depression, Terminator
064	852	205:17:16	"	"	"	" " "
065	853	213:26	"	"	"	" Western Desert, Terminator

APOLLO SOYUZ TEST PROJECT (Stafford-Brand-Slayton) JULY 15-24, 1975

Film/Magazine Identification No.	IF-02	Laboratory Roll No.	13	Camera Data	Hasselblad Reflex, 70-mm, Model 500EL, NASA Modified	Film Data	70-mm Ektachrome Infrared Aerochrome, Type 2443, ASA - 55 (Approximate)
Frame No.	MASA JSC Photo No.	Time of Photo GWT	Photo GET	Rev. No.	Altitude (Km)	Lens (mm)	Photograph Description, location, Subject, etc.
001	AST-13-789	205:16:45	212:55	136	213	50	Mexico, Clouds, M. Alman Reservoir
002	790	"	"	"	"	"	"
003	791	"	"	"	"	"	"
004	792	205:16:49	212:59	"	"	"	Clouds Over Gulf of Mexico
005	793	"	"	"	"	"	"
006	AST-13-794	205:16:50	213:00	"	"	"	"
007	795	205:16:53	213:03	136	217	"	VA-ND-NC; Chesapeake Bay; Tidewater, VA; Norfolk, Richmond
008	796	"	"	"	"	"	VA-ND-NC; Chesapeake Bay; Tidewater, Virginia; Cape Charles
009	797	"	"	"	"	"	VA-ND-NC; Chesapeake Bay; Tidewater, Virginia; Cape Charles
010	798	"	"	"	"	"	VA-ND-NC; Chesapeake Bay; Tidewater, Virginia; Cape Charles
011	AST-13-799	"	"	"	"	"	DEL-ND-PA; Delaware Bay, Philadelphia, Atlantic City, Cape May
012	800	"	"	"	"	"	ND-DEL-PA; Delaware Bay, Wilmington, Atlantic City, Cape May
013	801	205:16:54	213:04	"	218	"	RI-CT-MASS-NY; Newport, Martha's Vineyard, Block Island, Cape Cod
014	802	"	"	"	"	"	RI-MASS-NY; Newport, Block Island, Martha's Vineyard, Cape Cod
015	803	"	"	"	"	"	MASS-MASS-NY; Cape Cod, Martha's Vineyard, Hyannis
016	AST-13-804	205:16:57	213:07	"	222	"	Clouds Over Newfoundland, Miquelon Island
017	805	"	"	"	"	"	"
018	806	"	"	"	"	"	"
019	807	"	"	"	"	"	"
020	808	"	"	"	"	"	Atlantic Ocean
021	AST-13-809	"	"	"	"	"	"
022	810	"	"	"	"	"	"
023	811	"	"	"	"	"	"
024	812	"	"	"	"	"	"
025	813	"	"	"	"	"	"
026	AST-13-814	205:17:10	213:20	"	"	"	France, Normandie, Le Havre, Omaha Beach, Mount St. Michel, Cherbourg
027	815	"	"	"	"	"	France, Normandie, Le Havre, Omaha Beach, Mount St. Michel, Cherbourg
028	816	"	"	"	"	"	"
029	817	"	"	"	"	"	Blank
030	818	205:17:11	213:21	"	"	"	France, Bordeaux, Aquitaine Coast, Rochefort

Frame No.	NASA JSC Photo No.	Time of Photo		Rev. No.	Altitude (km)	Lens (mm)	Photograph Description, Location, Subject, etc.
		GMT	GET				
066	AST-13-854	205:17:16	213:26	136	219	50	Egypt, Western Desert, Terminator
067	855	"	"	"	"	"	"
068	856	"	"	"	"	"	Terminator, Egypt
069	857	"	"	"	"	"	"
070	858	"	"	"	"	"	"
071	AST-13-859	205:17:17	213:27	"	"	"	"
END OF ROLL							

APOLLO SOYUZ TEST PROJECT (Stafford-Brand-Slayton) JULY 15-24, 1975

Film/Magazine Identification No. CT-02 Laboratory Roll No. 14 Camera Hasselblad, 70-mm, Data With 1-cm Film 70-mm Ektachrome, High Definition Aerial, Data Reseau, Model 500EL, NASA Modified Data Type SO-242, ASA = 10 (Approximate)

Frame No.	NASA JSC Photo No.	Time of Photo GMT	Rev. No.	Altitude (Km)	Lens (mm)	Photograph Description, Location, Subject, etc.
001	AST-14-860	197:22:22	17	185	100	Pacific Ocean, Clouds SW of California
002	861	"	"	"	"	"
003	862	"	"	186	"	"
004	863	"	"	"	"	"
005	864	"	"	187	"	"
006	AST-14-865	"	"	"	"	"
007	866	"	"	183	"	"
008	867	"	"	183	"	"
009	868	"	"	"	"	"
010	869	"	"	"	"	"
011	AST-14-870	197:22:25	"	"	"	"
012	871	"	"	190	"	"
013	872	"	"	"	"	"
014	873	"	"	"	"	"
015	874	"	"	191	"	"
016	AST-14-875	"	"	"	"	"
017	876	"	"	192	"	"
018	877	"	"	"	"	California, San Nicolas Island
019	878	"	"	"	"	"
020	879	"	"	193	"	"
021	AST-14-890	197:22:26	"	"	"	"
022	891	"	"	"	"	"
023	892	"	"	"	"	"
024	893	"	"	194	"	"
025	894	"	"	"	"	"
026	AST-14-885	"	"	"	"	"
027	886	"	"	"	"	Blank
028	887	199:09:37	40	223	60	Angola - South West Africa, Rio Cubango, Rio Longa
029	888	"	"	"	"	"
030	889	"	"	"	"	"

Frame No.	NASA JSC Photo No.	Time of Photo GMT	Rev. No.	Altitude (km)	Lens (mm)	Photograph Description, Location, Subject, etc.
011	AST-14-890	199:09:37	40	223	60	Angola - South West Africa, Rio Cuando, Rio Cusstivi
012	891	"	"	"	"	" " " " " Rio Mussumma
013	892	199:09:38	"	"	"	" " " " " Rio Luio, Rio Luangungo
014	893	"	"	"	"	" " " " " Rio Luque-Bungo, Luvel
015	894	"	"	"	"	" " " " " Luena River, Rio Luque-Bungu
016	AST-14-895	"	"	"	"	" " " " " Zambese River, Luena River
017	896	"	"	"	"	" " " " " Zambez River, Catumbu
018	897	"	"	"	"	" " " " " Zambez River, Catumbu
019	898	199:09:39	"	"	"	Zaire, Angola, Laushi River
020	899	"	"	"	"	" " " " " Kasaji
021	AST-14-900	"	"	"	"	" " " " " Lubilash River
022	901	"	"	"	"	" " " " " Lubudi River
023	902	"	"	"	"	" " " " " Hakanson Mountains
024	903	"	"	"	"	" " " " " Lumani River
025	904	199:09:40	"	"	"	" " " " " Kabongo
026	AST-14-905	"	"	"	"	" " " " " Katanga, Firs
027	906	"	"	"	"	" " " " " Luaba River, Luwa River, Kabalo
028	907	"	"	"	"	" " " " " Lukusa River, Kabalo
029	908	"	"	"	"	" " " " " Bango-Bango Area, Overexposed
030	909	"	"	"	"	" " " " " Bango-Bango Area, Overexposed
031	AST-14-910	199:09:41	"	"	"	" " " " " Butye Area, Overexposed
032	911	"	"	"	"	" " " " " Mitumba Mountains, Overexposed
033	912	"	"	"	"	" " " " " Mitumba
034	913	"	"	"	"	" " " " " Burundi - Zaire - Rwanda, Mitumba Mountains, Overexposed
035	914	"	"	"	"	" " " " " Lackiu, Overexposed
036	AST-14-915	"	"	222	"	Rwanda - Uganda - Davaaland, Overexposed
037	916	199:09:42	"	"	"	" " " " " Overexposed
038	917	"	"	"	"	Uganda - Rwanda, Lake Edward, Ankoie Area, Overexposed
039	918	"	"	"	"	" " " " " Ankoie Area, Overexposed
040	919	"	"	"	"	" " " " " Buganda Area, Overexposed
041	AST-14-920	"	"	"	"	" " " " " Lake Kyoga, Ntice Nile, Marchison Falls, Overexposed
042	921	"	"	"	"	" " " " " Lake Kwana, Overexposed
043	922	199:09:43	"	223	"	" " " " " NE Section, Overexposed
044	923	"	"	"	"	" " " " " NE Section, Overexposed
045	924	"	"	"	"	" " " " " NE Section, Overexposed

Frame No.	NASA JSC Photo No.	Time of Photo		Rev. No.	Altitude (km)	Lens (mm)	Photograph Description, Location, Subject, etc.
		GMT	GET				
066	AST-14-925	199:09:43	61:53	40	223	60	Uganda, Kidepo N.P., Overexposed
067	926						
068	927	199:09:44	61:54				Sudan - Kenya - Uganda, Elemi Triangle, Overexposed
069	928						Elemi Triangle, Overexposed
070	929						Ethiopia - Sudan, Elemi Triangle, Overexposed
071	AST-14-930						
072	931						Omo River, Overexposed
073	932						Kefa Area, Overexposed
074	933	199:09:45	61:55				
075	934						Walaga Area, "
076	AST-14-935						
077	936						Blue Nile, Overexposed
078	937						
079	938						
080	939	199:09:46	61:56				
081	AST-14-940						
082	941						Wallo Area, Overexposed
083	942						Window Dirt
084	943						Danakil Depression, Window Dirt
085	944						
							Fgogi Bad, Red Sea
086	AST-14-945	199:09:47	61:57				
087	946						Red Sea, Edd
088	947				224		Red Sea, Jazair Az Zubayr Islands
089	948						Yemen, Red Sea, Kamaran Island, Al Luhayyah
090	949						Yemen - Saudi Arabia, Kamaran Island, Jizan, Farasan Islands
	950						Saudi Arabia - Yemen, Red Sea, Abu Arish
091	AST-14-950						
092	951	199:09:48	61:58				Yemen - Saudi Arabia, Jabel-Al-Hijaz
093	952						Saudi Arabia - Yemen, Najran
094	953						Rus Al Khalif
095	954						
096	AST-14-955						
097	956						
098	957	199:09:49	61:59		225		Urug Ar Rumaylah
099	958						
100	959						Dahna Sands

Frame No.	NASA JSC Photo No.	Time of Photo GMT CET	Rev. No.	Altitude (ft)	Lens (mm)	Photograph Description, location, Subject, etc.
101	AST-14-960	199:09:49 61:59	40	225	60	Saudi Arabia, As Suqman, Dahn Sands
102	961	" "	"	"	"	" " " " " "
103	962	199:09:50 62:00	"	226	"	" " " " " " ; Yabrin
104	963	" "	"	"	"	" " " " " " ; Al Jafurah
105	964	" "	"	"	"	" " " " " " " "
106	AST-14-965	" "	"	"	"	" " " " " " " "
107	966	" "	"	"	"	Qatar - Saudi Arabia, Gulf of Bahrain, Overexposed
108	967	" "	"	"	"	" Bahrain, Gulf of Bahrain, Duh, Overexposed
109	968	199:09:51 62:01	"	"	"	" Ras Rakan, Persian Gulf, Overexposed
END OF ROLL						

APOLLO SCVU2 TEST PROJECT (Stafford-Brand-Slayton) JULY 15-24, 1975

Film/Magazine Identification No. - FT-03		Laboratory Roll No. 15		Camera Hasselblad, 70-mm Data with 1-cm Film 70-mm Ektachrome, High Definition Aerial, Reseau, Model 500EL, NASA Modified Data Type 50-242, ASA = 10 (Approximate)	
Frame No.	NASA JSC Photo No.	Time of Photo GMT	Rev. No.	Altitude (ft)	Lens (mm)
001	AST-15-969	199:08:01	39	225	60
002	970	60:11			
003	971				
004	972				
005	973				
006	AST-15-974				
007	975	199:08:02		225	
008	976				
009	977				
010	978				
011	AST-15-979				
012	980				
013	981	199:08:03		224	
014	982				
015	983				
016	AST-15-984				
017	985				
018	986				
019	987	199:08:04			
020	988	60:14			
021	AST-15-989				
022	990				
023	991				
024	992				
025	993	199:08:05			
026	AST-15-994				
027	995				
028	996				
029	997			223	
030	998				

Obstruction in Front of Lens, Clouds, South of Africa
 South of Cape of Good Hope
 Coast, South Africa, St. Frances Bay
 South Africa, Groot-Vish River
 Groot-Kl River
 Tembuland
 Mt. Fisher, Pondoland
 Griqualand
 Natal Near Petermaritzburg
 Natal, N. or Durban
 Zululand
 Sibayi Lake
 Mocambique
 Indian Ocean, Inhaca Island
 Mocambique
 Mocambique Coast, Quissico
 Mocambique
 Mocambique Coast
 Indian Ocean

Frame No.	AST-15C Photo No.	Time of Photo		Rev. No.	Altitude (km)	Lens (mm)	Photograph Description, Location, Subject, etc.			
		GMT	GET							
066	AST-15-1014	199:08:11	60:21	39	222	60	Clouds Over Indian Ocean			
067	1035	199:08:12	60:22	"	"	"	"	"	"	"
068	1036	"	"	"	"	"	"	"	"	"
069	1037	"	"	"	"	"	"	"	"	"
070	1038	"	"	"	"	"	"	"	"	"
071	AST-15-1039	"	"	"	"	"	"	"	"	"
072	1040	"	"	"	"	"	"	"	"	"
073	1041	199:08:13	60:23	"	"	"	"	"	"	"
074	1042	"	"	"	"	"	"	"	"	"
075	1043	"	"	"	"	"	"	"	"	"
076	AST-15-1044	"	"	"	"	"	"	"	"	"
077	1045	"	"	"	"	"	"	"	"	"
078	1046	"	"	"	"	"	"	"	"	"
079	1047	199:08:14	60:24	"	"	"	Clouds Over Indian Ocean, Overexposed			
080	1048	"	"	"	"	"	"	"	"	"
081	AST-15-1049	"	"	"	"	"	"	"	"	"
082	1050	"	"	"	"	"	"	"	"	"
083	1051	"	"	"	"	"	"	"	"	"
084	1052	"	"	"	"	"	"	"	"	"
085	1053	199:08:15	60:25	"	"	"	"	"	"	"
086	AST-15-1054	"	"	"	"	"	"	"	"	"
087	1055	"	"	"	"	"	"	"	"	"
088	1056	"	"	"	"	"	"	"	"	"
089	1057	"	"	"	"	"	"	"	"	"
090	1058	"	"	"	"	"	"	"	"	"
091	AST-15-1059	199:08:16	60:26	"	223	"	"	"	"	"
092	1060	"	"	"	"	"	"	"	"	"
093	1061	"	"	"	"	"	"	"	"	"
094	1062	"	"	"	"	"	"	"	"	"
095	1063	"	"	"	"	"	"	"	"	"
096	AST-15-1064	"	"	"	"	"	"	"	"	"
097	1065	199:08:17	60:27	"	"	"	"	"	"	"
098	1066	"	"	"	"	"	"	"	"	"
099	1067	"	"	"	"	"	"	"	"	"
100	1068	"	"	"	"	"	"	"	"	"

Frame No.	WASA JSC Photo No.	Time of Photo GMT	Rev. No.	Altitude (km)	Lens (mm)	Photograph Description, Location, Subject, etc.
101	AST-15-1069	199:03:17 60:27	39	223	60	Clouds Over Indian Ocean, Overexposed
102	1070	199:08:18 60:28				
103	1071					
104	1072					
105	1073					
106	AST-15-1074					
107	1075	199:08:19 60:29		224		
108	1076					
109	1077					
110	1078					
111	AST-15-1079					
112	1080					
113	1081	199:08:20 60:30				
114	1082					
115	1083					
116	AST-15-1084					
117	1085					
118	1086					
119	1087	199:08:21 60:31		225		Clouds Over India, Gujjar, Overexposed
120	1088					
121	AST-15-1089					
122	1090					
123	1091					
124	1092					Overexposed, No Image Over Rajasthan
125	1093	199:08:22 60:32		226		
126	AST-15-1094					
127	1095					
128	1096					
129	1097					
130	1098					Overexposed, India, Punjab
131	AST-15-1099	199:08:23 60:33		227		India, Uttar Pradesh, Overexposed
132	1100					
133	1101					
134	1102					
135	1103					Tibet, Overexposed

Frame No.	MASA JSC Photo No.	Time of Photo		Rev. No.	Altitude (km)	Lens (mm)	Photograph Description, Location, Subject, etc.			
		GMT	GET							
031	AST-15-999	199:08:06	60:16	39	223	60	Obstruction in Front of Lens, Indian Ocean			
032	1000	"	"	"	"	"	"	"	"	"
033	1001	"	"	"	"	"	"	"	"	"
034	1002	"	"	"	"	"	"	"	"	"
035	1003	"	"	"	"	"	"	"	"	"
036	AST-15-1004	"	"	"	"	"	Clouds Over Indian Ocean			
037	1005	199:08:07	60:17	"	"	"	"	"	"	"
038	1006	"	"	"	"	"	"	"	"	"
039	1007	"	"	"	"	"	"	"	"	"
040	1008	"	"	"	"	"	"	"	"	"
041	AST-15-1009	"	"	"	"	"				
042	1010	"	"	"	"	"	"	"	"	"
043	1011	199:08:08	60:18	"	"	"	"	"	"	"
044	1012	"	"	"	"	"	"	"	"	"
045	1013	"	"	"	"	"	"	"	"	"
046	1014	"	"	"	"	"	"	"	"	"
047	1015	"	"	"	"	"	"	"	"	"
048	1016	"	"	"	"	"	"	"	"	"
049	1017	199:08:09	60:19	"	222	"	"	"	"	"
050	1018	"	"	"	"	"	"	"	"	"
051	AST-15-1019	"	"	"	"	"				
052	1020	"	"	"	"	"	"	"	"	"
053	1021	"	"	"	"	"	"	"	"	"
054	1022	"	"	"	"	"	"	"	"	"
055	1023	199:08:10	60:20	"	"	"	"	"	"	"
056	1024	"	"	"	"	"	"	"	"	"
057	1025	"	"	"	"	"	"	"	"	"
058	1026	"	"	"	"	"	"	"	"	"
059	1027	"	"	"	"	"	"	"	"	"
060	1028	"	"	"	"	"	"	"	"	"
061	AST-15-1029	199:08:11	60:21	"	"	"				
062	1030	"	"	"	"	"	"	"	"	"
063	1031	"	"	"	"	"	"	"	"	"
064	1032	"	"	"	"	"	"	"	"	"
065	1033	"	"	"	"	"	"	"	"	"

Payotte Island

Frame No.	NASA JSC Photo No.	Time of Photo		Rev. No.	Altitude (K _r)	Lens (mm)	Photograph Description, Location, Subject, etc.
		GMT	GET				
136	AST-15-1104	199:08:23	60:33	39	227	60	India, Uttar Pradesh, Tibet, Overexposed
137	1105	199:08:24	60:34	"	228	"	Tibet, Overexposed
138	1106	"	"	"	"	"	"
139	1107	"	"	"	"	"	"
140	1108	"	"	"	"	"	Blank
141	AST-15-1109	"	"	"	"	"	Out of Focus
142	1110	"	"	"	"	"	"
143	1111	199:08:25	60:35	"	"	"	"
144	1112	"	"	"	"	"	"
145	1113	"	"	"	"	"	"
146	AST-15-1114	"	"	"	"	"	"
147	1115	"	"	"	"	"	"
148	1116	"	"	"	"	"	"
149	1117	199:08:26	60:36	"	229	"	"
150	1118	"	"	"	"	"	"
151	AST-15-1119	"	"	"	"	"	"
152	1120	"	"	"	"	"	"
END OF ROLL							

APOLLO SOVUZ TEST PROJECT (Stafford-Brand-Slayton) JULY 15-24, 1975

Film/Magazine Identification No.	CT-04	Laboratory Roll No.	16	Camera Reseau, Model 500EL, NASA Modified Data Type 50-247, ASA = 10 (Approximate)	Fassellblad, 70-mm Film 70-mm Ektachrome, High Definition Aerial.	
Frame No.	NASA JSC Photo No.	Time of Photo GMT GET	Rev. No.	Altitude (Ym)	Lens (cm)	Photograph Description, Location, Subject, etc.
001	AST-16-1121	200:23:58 100:08	64	225	60	Clouds over Great Australian Bight
002	-1122	" "	"	"	"	Australia, Flinders Island, Investigator Group
003	-1123	" "	"	"	"	" " Anxious Bay, Flinders Island, Elliston
004	-1124	" "	"	"	"	" " Streaky Bay, Mount Hope
005	-1125	" "	"	"	"	" " Kimba, Gairdner Lake, Gawler Ranges
006	AST-16-1126	200:23:59 100:09	64	225	60	" " Gairdner Lake, Lake Gilles, Gawler Ranges
007	-1127	" "	"	224	"	" " " " Lake MacFarlane, Island Lagoon
008	-1129	" "	"	"	"	" " Island Lagoon, Lake Torrens, Woomera
009	-1133	" "	"	"	"	" " Lake Turrens, Leigh Creek, North Flinders Range
010	-1130	" "	"	"	"	" " North Flinders Range, Lake Torrens, Leigh Creek
011	AST-16-1131	" "	"	"	"	" " North Flinders Range, Lake Arthur
012	-1132	" "	"	"	"	" " Lake Blanche, Lake Callabonna, North Flinders Range
013	-1133	201:00:00 100:10	"	"	"	" " " " Yinga
014	-1134	" "	"	"	"	" " " " Callabonna Riv., Strezelecki Creek
015	-1135	" "	"	"	"	" " Strezelecki Creek
016	AST-16-1136	" "	"	"	"	" " Sturt Desert Clouds
017	-1137	" "	"	"	"	" " Queensland-South Australia, Clouds
018	-1138	" "	"	"	"	" " Queensland, Clouds
019	-1139	201:00:01 100:11	"	223	"	" " " "
020	-1140	" "	"	"	"	" " " "
021	AST-16-1141	" "	"	"	"	" " Barcoo Creek, Thomson Creek
022	-1142	" "	"	"	"	" " Yakaka, Barcoo Creek
023	-1143	" "	"	"	"	" " Thomson Creek, Barcoo Creek, Isisford
024	-1144	" "	"	"	"	" " Thomson Creek, Longreach
025	-1145	201:00:02 100:12	"	"	"	" " Lake Gallilee, Aramac, Aramac Creek
026	AST-16-1146	" "	"	"	"	" " " " Gread Dividing Range, Aramac
027	-1147	" "	"	"	"	" " Queensland, Lake Buchanan, Lake Galilee
028	-1148	" "	"	222	"	" " " " Belyando Riv.
029	-1149	" "	"	"	"	" " Leichhardt Range, Suttor Riv.
030	-1150	" "	"	"	"	" " Hone Hill, Ayer Burdekin Riv.

Frame No.	MASA JSC Photo No.	Time of Photo GMT	Rev. No.	Altitude (m)	Lens (mm)	Photograph Description, Location, Subject, etc.
031	AST-16-1151	201:00:03	64	221	60	Australia, Cape Upstart, Bowen, Great Barrier Reef
032	-1152	"	"	"	"	" , Great Barrier Reef, Cape Upstart, Bowen
033	-1153	"	"	"	"	" , NE of Bowen
034	-1154	"	"	"	"	" , Coral Sea, Malay Reef
035	-1155	"	"	"	"	Coral Sea, Malay Reef, Abington Reef
036	AST-16-1156	"	"	"	"	" , Cortina Islands, Malay Reef
037	-1157	201:00:04	"	"	"	" , Tregosse Islets, Diamond Islets
038	-1158	"	"	"	"	"
039	-1159	"	"	"	"	"
040	-1160	"	"	"	"	"
041	AST-16-1161	"	"	"	"	"
042	-1162	"	"	"	"	"
043	-1163	201:00:05	"	220	"	Clouds over Coral Sea
044	-1164	"	"	"	"	"
045	-1165	"	"	"	"	"
046	AST-16-1166	"	"	"	"	"
047	-1167	"	"	"	"	"
048	-1168	"	"	"	"	"
049	-1169	201:00:06	"	"	"	"
050	-1170	"	"	"	"	"
051	AST-16-1171	"	"	"	"	"
052	-1172	"	"	"	"	"
053	-1173	"	"	"	"	Solomon Islands, New Georgia I., Kolombangara I.
054	-1174	"	"	"	"	" , "The Slot", New Georgia I., Santa Isabel I.
055	-1175	201:00:07	"	"	"	"
056	AST-16-1176	"	"	"	"	"
057	-1177	"	"	"	"	" , Choiseul I., Santa Isabel I.
058	-1178	"	"	"	"	" , Santa Isabel I., Roncador Reef
059	-1179	"	"	"	"	" , Roncador Reef
060	-1180	"	"	"	"	" , Nukumanu Islands
061	AST-16-1181	201:00:08	"	"	"	Nukumanu Islands
062	-1182	"	"	"	"	Clouds over Pacific Ocean
063	-1183	"	"	"	"	"
064	-1184	"	"	"	"	"
065	-1185	"	"	"	"	"

Frame No.	NASA JSC Photo No.	Time of Photo		Rev. No.	Altitude (Km)	Lens (mm)	Photograph Description, Location, Subject, etc.
		GXT	GET				
066	AST-16-1186	201:00:08	100:18	64	221	60	Clouds over Pacific Ocean
067	-1187	201:00:09	100:19	"	"	"	"
068	-1188	"	"	"	"	"	"
069	-1189	"	"	"	"	"	"
070	-1190	"	"	"	"	"	"
071	AST-16-1191	201:00:09	100:19	64	221	"	"
072	-1192	201:10:30	110:40	71	218	"	Clouds over Atlantic Ocean. Dirt on Window
073	-1193	"	"	"	"	"	"
074	-1194	"	"	"	"	"	"
075	-1195	"	"	"	"	"	"
076	AST-16-1196	"	"	"	219	"	"
077	-1197	"	"	"	"	"	"
078	-1198	201:10:31	110:41	"	"	"	"
079	-1199	"	"	"	"	"	Clouds over Gulf of Guinea.
080	-1200	"	"	"	"	"	"
081	AST-16-1201	"	"	"	"	"	"
082	-1202	"	"	"	"	"	"
083	-1203	"	"	"	"	"	"
084	-1204	201:10:32	110:42	"	220	"	"
085	-1205	"	"	"	"	"	"
086	AST-16-1206	"	"	"	"	"	"
087	-1207	"	"	"	"	"	Clouds over Nigeria. Dirt on Window
088	-1208	"	"	"	"	"	"
089	-1209	"	"	"	"	"	"
090	-1210	201:10:33	110:43	"	"	"	"
091	AST-16-1211	"	"	"	"	"	"
092	-1212	"	"	"	"	"	"
093	-1213	"	"	"	221	"	"
094	-1214	"	"	"	"	"	"
095	-1215	"	"	"	"	"	"
096	AST-16-1216	201:10:34	110:44	"	"	"	"
097	-1217	"	"	"	"	"	"
098	-1218	"	"	"	"	"	"
099	-1219	"	"	"	"	"	"
100	-1220	"	"	"	"	"	"
							" Lake Chad. Dirt on Window

Frame No.	NASA JSC Photo No.	Time of Photo GMT	Rev. No.	Altitude (km)	Lens (mm)	Photograph Description, Location, Subject, etc.
101	AST-16-1221	201:10:34	71	221	60	Clouds over Nigeria, Lake Chad, Dirt on Window
102	-1222	201:10:35	"	"	"	Clouds over Nigeria-Chad, Lake Chad, Dirt on Window
103	-1223	"	"	"	"	Clouds over Chad-Nigeria, Lake Chad, Window Obstruction, Out of focus, Overexposed, Dirt on Window
104	-1224	"	"	"	"	Chad, Window Obstruction, Out of focus, Overexposed, Dirt on Window
105	-1225	"	"	"	"	Chad, Kanem, Overexposed, Dirt on Window
106	AST-16-1226	"	"	"	"	"
107	-1227	"	"	"	"	"
108	-1228	201:10:36	"	222	"	"
109	-1229	"	"	"	"	"
110	-1230	"	"	"	"	"
111	AST-16-1231	"	"	"	"	"
112	-1232	"	"	"	"	"
113	-1233	"	"	"	"	"
114	-1234	201:10:37	"	"	"	"
115	-1235	"	"	"	"	"
116	AST-16-1236	"	"	"	"	"
117	-1237	"	"	"	"	"
118	-1238	"	"	"	"	"
119	-1239	"	"	"	"	"
120	-1240	201:10:38	"	223	"	"
121	AST-16-1241	"	"	"	"	"
122	-1242	"	"	"	"	"
123	-1243	"	"	"	"	"
124	-1244	"	"	"	"	"
125	-1245	"	"	"	"	"
126	AST-16-1246	201:10:39	"	"	"	"
127	-1247	"	"	"	"	"
128	-1248	"	"	"	"	"
129	-1249	"	"	"	"	"
130	-1250	"	"	"	"	"
131	AST-16-1251	"	"	224	"	"
132	-1252	201:10:40	"	224	"	"
133	-1253	"	"	"	"	"
134	-1254	"	"	"	"	"
135	-1255	"	"	"	"	"

Frame No.	NASA JSC Photo No.	Time of Photo GUT GET	Rev. No.	Altitude (km)	Lens (mm)	Photograph Description, Location, Subject, etc.
136	AST-16-1256	201:10:40	71	224	60	Egypt, Alexandria, Wadi Matrun, El Alamein
137	1257	201:10:41	"	"	"	" " Damanhur, Rosetta Mouth of Nile, Wadi Matrun
138	1258	"	"	"	"	" " Both Mouths of Nile, Alexandria, Tanta Kafr El Shethh
139	1259	"	"	"	"	" " Dalmetta Mouth of Nile, Nile Delta, Bilya, Buheirat-El-Burullus
140	1260	"	"	"	"	" " Mediterranean Sea
141	AST-16-1261	"	"	225	"	Blank
142	1262	"	"	"	"	Mediterranean Sea
143	1263	"	"	"	"	Mediterranean Sea, Cyprus
144	1264	201:10:42	"	"	"	Mediterranean Sea, Cyprus, Cape Greco
145	1265	"	"	"	"	" " Lebanon, Tripoli
146	AST-16-1266	"	"	"	"	Syria-Lebanon-Cyprus, Latakia, Tripoli
147	1267	"	"	"	"	Syria-Cyprus-Turkey-Lebanon, Latakia, Hama, Homs
148	1268	"	"	"	"	Syria-Turkey, Aleppo, Hama, Homs, Jebel El Ansariye
149	1269	"	"	"	"	" " Euphrates Riv.
150	1270	201:10:43	"	226	"	" " Euphrates Riv, Aleppo, Jerablus
151	AST-16-1271	"	"	"	"	Turkey-Syria, Euphrates Riv., Urfa
152	1272	"	"	"	"	Turkey-Syria, Euphrates Riv.
153	1273	201:10:43	"	"	"	" " Partial frame

END OF ROLL

APOLLO SOYUZ TEST PROJECT (Stafford-Brand-Slayton) JULY 15-24, 1975

Film/Magazine Identification No.		CT-05	Laboratory Roll No.	17	Camera	Hasselblad, 70-mm, Data With 1-cm Film	70-mm Ektachrome, High Definition Aerial, Type 50-242, ASA = 10 (Approximate)
Frame No.	NASA JSC Photo No.	Time of Photo G-T	Rev. No.	Altitude (ft)	Lens (mm)	Photograph Description, Location, Subject, etc.	
001	AST-17-1274	201:12:01	112:11	72	216	60	Atlantic Ocean West of Sierra Leone
002	-1275	"	"	"	"	"	"
003	-1276	"	"	"	"	"	"
004	-1277	"	"	"	"	"	"
005	-1278	201:12:02	112:12	"	"	"	"
006	AST-17-1279	"	"	"	"	"	"
007	-1280	"	"	"	"	"	"
008	-1281	"	"	"	"	"	"
009	-1282	"	"	"	"	"	"
010	-1283	"	"	"	"	"	"
011	AST-17-1284	201:12:03	112:13	"	"	"	Clouds Over Sierra Leone, Overexposed
012	-1285	"	"	217	"	"	"
013	-1286	"	"	"	"	"	"
014	-1287	"	"	"	"	"	"
015	-1288	"	"	"	"	"	Clouds Over Guinea, Overexposed
016	AST-17-1289	"	"	"	"	"	"
017	-1290	201:12:04	112:14	"	"	"	"
018	-1291	"	"	"	"	"	"
019	-1292	"	"	"	"	"	"
020	-1293	"	"	"	"	"	"
021	AST-17-1294	"	"	"	"	"	Clouds, Guinea-Mali, Niger River, Overexposed
022	-1295	"	"	"	"	"	Clouds Over Mali, Overexposed
023	-1296	201:12:05	112:15	"	"	"	"
024	-1297	"	"	"	"	"	"
025	-1298	"	"	"	"	"	"
026	AST-17-1299	"	"	"	"	"	"
027	-1300	"	"	"	"	"	"
028	-1301	"	"	"	"	"	"
029	-1302	201:12:06	112:16	"	"	"	"
030	-1303	"	"	218	"	"	"

Frame No.	NASA JSC Photo No.	Time of Photo GMT	Photo ALT	Rev. No.	Altitude (km)	Lens (mm)	Photograph Description, Location, Subject, etc.
031	AST-17-1304	201:12:06	112:16	72	218	60	Clouds Over Mali, Overexposed
032	-1305	"	"	"	"	"	Mali, Overexposed
033	-1306	"	"	"	"	"	"
034	-1307	201:12:07	112:17	"	"	"	"
035	-1308	"	"	"	"	"	"
036	AST-17-1309	"	"	"	"	"	"
037	-1310	"	"	"	"	"	"
038	-1311	"	"	"	"	"	"
039	-1312	"	"	"	"	"	"
040	-1313	"	"	"	"	"	"
041	AST-17-1314	201:12:08	112:18	"	219	"	"
042	-1315	"	"	"	"	"	"
043	-1316	"	"	"	"	"	"
044	-1317	"	"	"	"	"	"
045	-1318	"	"	"	"	"	"
046	AST-17-1319	201:12:09	112:19	"	220	"	"
047	-1320	"	"	"	"	"	"
048	-1321	"	"	"	"	"	"
049	-1322	"	"	"	"	"	"
050	-1323	"	"	"	"	"	"
051	AST-17-1324	"	"	"	"	"	"
052	-1325	201:12:10	112:20	"	221	"	"
053	-1326	"	"	"	"	"	"
054	-1327	"	"	"	"	"	"
055	-1328	"	"	"	"	"	"
056	AST-17-1329	"	"	"	"	"	"
057	-1330	"	"	"	"	"	"
058	-1331	201:12:11	112:21	"	222	"	Mali -Algeria, Overexposed
059	-1332	"	"	"	"	"	Algeria, Overexposed
060	-1333	"	"	"	"	"	"
061	AST-17-1334	"	"	"	"	"	"
062	-1335	"	"	"	"	"	"
063	-1336	"	"	"	"	"	"
064	-1337	201:12:12	112:22	"	"	"	"
065	-1338	"	"	"	"	"	"

Frame No.	NASA JSC Photo No.	Time of Photo GCT	Rev. No.	Altitude (km)	Lens (mm)	Photograph Description, Location, Subject, etc.
066	AST-17-1339	201:12:12	72	222	60	Algeria, Overexposed
067	-1340	"	"	"	"	"
068	-1341	"	"	"	"	"
069	-1342	"	"	"	"	"
070	-1343	201:12:13	"	223	"	"
071	AST-17-1344	"	"	"	"	"
072	-1345	"	"	"	"	"
073	-1346	"	"	"	"	"
074	-1347	"	"	"	"	"
075	-1348	"	"	"	"	"
076	AST-17-1349	201:12:14	"	224	"	"
077	-1350	"	"	"	"	"
078	-1351	"	"	"	"	"
079	-1352	"	"	"	"	Algeria, Grand Erg Oriental, Overexposed
080	-1353	"	"	"	"	"
081	AST-17-1354	"	"	"	"	"
082	-1355	"	"	"	"	"
083	-1356	201:12:15	"	"	"	"
084	-1357	"	"	"	"	"
085	-1358	"	"	225	"	"
086	AST-17-1359	"	"	"	"	"
087	-1360	"	"	"	"	Tunisia - Algeria, Grand Erg Oriental, Overexposed
088	-1361	201:12:16	"	"	"	Tunisia - Grand Erg Oriental, Overexposed
089	-1362	"	"	"	"	"
090	-1363	"	"	226	"	"
091	AST-17-1364	"	"	"	"	Gefara Plain, Overexposed
092	-1365	201:12:17	"	"	"	"
093	-1366	"	"	"	"	Jerba Island, Zanzis, Overexposed
094	-1367	"	"	"	"	"
095	-1368	"	"	"	"	"
096	AST-17-1369	201:12:18	"	227	"	Iles Kerkenna, Overexposed
097	-1370	"	"	"	"	"
098	-1371	"	"	"	"	"
099	-1372	"	"	"	"	Lampedusa Island, Overexposed
100	-1373	"	"	"	"	Linosa Island, Overexposed

Frame No.	NASA JSC Photo No.	Time of Photo GMT	Rev. No.	Altitude (ft)	Lens (mm)	Photograph Description, Location, Subject, etc.
101	AST-17-1374	201:12:18	72	227	60	Lampedusa Island, Linosa Island, Overexposed
102	-1375	201:12:19	"	228	"	Cinosa Island, Malta, Gozo Island, Overexposed
103	-1376	"	"	"	"	Malta, Valletta, Gozo, Victoria, Overexposed
104	-1377	"	"	"	"	Sicily, Malta, Valletta, Gela
105	-1378	"	"	"	"	Sicily, Gela, Pachino, Avola, Pozzallo
106	AST-17-1379	"	"	"	"	Sicily, Gela, Siracusa, Catania, Monte Iblei

END OF ROLL

Frame No.	NASA JSC Photo No.	Time of Photo GMT	Photo GET	Rev. No.	Altitude (km)	Lens (cm)	Photograph Description, Location, Subject, etc.
031	AST-18-1410	205:14:48	212:58	135	214	60	Out of Focus, Mexico
032	1411	"	"	"	"	"	"
033	1412	"	"	"	"	"	"
034	1413	"	"	"	"	"	"
035	1414	"	"	"	"	"	"
036	AST-18-1415	"	"	"	"	"	"
037	1416	205:14:49	212:59	"	215	"	Out of Focus, Gulf of Mexico
038	1417	"	"	"	"	"	"
039	1418	"	"	"	"	"	"
040	1419	"	"	"	"	"	"
041	AST-18-1420	"	"	"	"	"	"
042	1421	"	"	"	"	"	"
043	1422	205:14:50	213:00	"	"	"	"
044	1423	"	"	"	"	"	"
C-5	1424	"	"	"	"	"	"
046	AST-18-1425	"	"	"	"	"	"
047	1426	"	"	"	"	"	"
048	1427	"	"	"	"	"	"
049	1428	205:14:51	213:01	"	216	"	"
050	1429	"	"	"	"	"	"
051	AST-18-1430	"	"	"	"	"	"
052	1431	"	"	"	"	"	"
053	1432	"	"	"	"	"	"
054	1433	"	"	"	"	"	"
055	1434	205:14:52	213:02	"	217	"	"
056	AST-18-1435	"	"	"	"	"	"
057	1436	"	"	"	"	"	Out of Focus, South Atlantic States
058	1437	"	"	"	"	"	"
059	1438	"	"	"	"	"	"
060	1439	"	"	"	"	"	"
061	AST-18-1440	205:14:53	213:03	"	218	"	"
062	1441	"	"	"	"	"	"
063	1442	"	"	"	"	"	"
064	1443	"	"	"	"	"	"
065	1444	"	"	"	"	"	"

Frame No.	NASA JSC Photo No.	Time of Photo		Rev. No.	Altitude (Ym)	Lens (mm)	Photograph Description, Location, Subject, etc.	
		GMT	GET				Out of Focus, Newfoundland	Out of Focus, Clouds Over North Atlantic
101	AST-18-1480	205:14:59	213:09	136	223	60	"	"
102		"	"	"	"	"	"	"
103		205:15:00	213:10	"	"	"	"	"
104		"	"	"	"	"	"	"
105		"	"	"	"	"	"	"
106	AST-18-1485	"	"	"	"	"	"	"
107		"	"	"	"	"	"	"
108		"	"	"	"	"	"	"
109		205:15:01	213:11	"	224	"	"	"
110		"	"	"	"	"	"	"
111	AST-18-1490	"	"	"	"	"	"	"
112		"	"	"	"	"	"	"
113		"	"	"	"	"	"	"
114		"	"	"	"	"	"	"
115		205:15:02	213:12	"	"	"	"	"
116	AST-18-1495	"	"	"	"	"	"	"
117		"	"	"	"	"	"	"
118		"	"	"	"	"	"	"
119		"	"	"	"	"	"	"
120		"	"	"	"	"	"	"
121	AST-18-1500	205:15:03	213:13	"	"	"	"	"
122		"	"	"	"	"	"	"
123		"	"	"	"	"	"	"
124		"	"	"	"	"	"	"
125		"	"	"	"	"	"	"
126	AST-18-1505	"	"	"	"	"	"	"
127		205:15:04	213:14	"	223	"	"	"
128		"	"	"	"	"	"	"
129		"	"	"	"	"	"	"
130		"	"	"	"	"	"	"
131	AST-18-1510	"	"	"	"	"	"	"
132		205:15:05	213:15	"	"	"	"	"
133		"	"	"	"	"	"	"
134		"	"	"	"	"	"	"
135		"	"	"	"	"	"	"

Frame No.	NASA JSC Photo No.	Time of Photo GMT	Rev. No.	Altitude (Km)	Lens (mm)	Photograph Description, Location, Subject, etc.
066	AST-18-1445	205:14:53 213:03	135	218	60	Out of Focus, South Atlantic States
067	1446	205:14:54 213:04	"	219	"	Out of Focus, Mid Atlantic States
068	1447	"	"	"	"	"
069	1448	"	"	"	"	"
070	1449	"	"	"	"	"
071	AST-18-1450	"	136	"	"	"
072	1451	"	"	"	"	"
073	1452	205:14:55 213:05	"	220	"	"
074	1453	"	"	"	"	"
075	1454	"	"	"	"	"
076	AST-18-1455	"	"	"	"	"
077	1456	"	"	"	"	"
078	1457	"	"	"	"	"
079	1458	205:14:56 213:06	"	221	"	Out of Focus, New England
080	1459	"	"	"	"	"
081	AST-18-1460	"	"	"	"	"
082	1461	"	"	"	"	"
083	1462	"	"	"	"	"
084	1463	"	"	"	"	"
085	1464	205:14:57 213:07	"	"	"	"
086	AST-18-1465	"	"	222	"	"
087	1466	"	"	"	"	Out of Focus, Nova Scotia
088	1467	"	"	"	"	"
089	1468	"	"	"	"	"
090	1469	"	"	"	"	"
091	AST-18-1470	205:14:58 213:08	"	"	"	"
092	1471	"	"	"	"	Prince Edward Island
093	1472	"	"	"	"	"
094	1473	"	"	"	"	"
095	1474	"	"	223	"	"
096	AST-18-1475	"	"	"	"	"
097	1476	205:14:59 213:09	"	"	"	Out of Focus, Cabot Strait
098	1477	"	"	"	"	Out of Focus, Newfoundland
099	1478	"	"	"	"	"
100	1479	"	"	"	"	"

Frame No.	NASA JSC Photo No.	Time of Photo		Rev. No.	Altitude (Km)	Lens (mm)	Photograph Description, Location, Subject, etc.
		GWT	GET				
136	AST-18-1515	205:15:05	213:15	136	223	60	Out of Focus, Clouds Over North Atlantic
137	1516	"	"	"	"	"	"
138	1517	"	"	"	"	"	"
139	1518	205:15:06	213:16	"	222	"	"
140	1519	"	"	"	"	"	"
141	AST-18-1520	"	"	"	"	"	"
142	1521	"	"	"	"	"	"
143	1522	"	"	"	"	"	"
144	1523	"	"	"	"	"	"
145	1524	205:15:07	213:17	"	"	"	"
146	AST-18-1525	"	"	"	"	"	"
147	1526	"	"	"	"	"	"
148	1527	"	"	"	"	"	"
149	1528	"	"	"	"	"	"
150	1529	"	"	"	"	"	Blank
151	AST-19-1530	205:15:08	213:18	"	221	"	Out of Focus, Clouds Over North Atlantic
152	1531	"	"	"	"	"	"
153	1532	"	"	"	"	"	"
154	1533	"	"	"	"	"	"
155	1534	"	"	"	"	"	Blank
156	AST-18-1535	"	"	"	"	"	Out of Focus, Clouds
END OF ROLL							

APOLLO SOYUZ TEST PROJECT (Stafford-Brand-Slayton) JULY 15-24, 1975

Film/Magazine Identification No.		CX-37	Laboratory Roll No.	19	Camera Model 500EL, NASA Modified	Film Data	70-mm Ektachrome, MS. Type QX-807	ASA - 64
Frame No.	NASA JSC Photo No.	Time of Day	Photo SET	Rev. No.	Altitude (km)	Lens (mm)	Photograph Description, Location, Subject, etc.	
001	AST-19-1536	204:20:39	192:49	123	222	50	Washington-British Columbia, Seattle, Vancouver	
002	1537	"	"	"	"	"	Puget Sound, Olympic Mts. Victoria	
003	1538	"	"	"	"	"	San Juan Islands, Mt. Baker	
004	1539	"	"	"	"	"	Fraser Riv., Puget Sound, Cascades	
005	1540	"	"	"	"	"	Cascades, Lake Chelan, Fraser Riv.	
006	AST-19-1541	204:20:40	192:50	"	"	"	Cascades, Okanagan Lake	
007	1542	"	"	"	"	"	Okanagan Riv., Lake Chelan	
008	1543	"	"	"	"	"	Okanagan Range, Columbia Riv.	
009	1544	204:22:43	194:53	124	244	"	Australia, Lake Eyre Basin, Underexposed	
010	1545	"	"	"	"	"	"	
011	AST-19-1546	"	"	"	243	"	"	
012	1547	"	"	"	"	"	South Australia, Lake Eyre Basin	
013	1548	204:22:44	194:54	"	242	"	"	
014	1549	"	"	"	"	"	"	
015	1550	"	"	"	241	"	"	
016	AST-19-1551	204:22:46	194:56	"	237	"	Queensland, Great Barrier Reef, Cairns	
017	1552	"	"	"	"	"	Cape Bedford	
018	1553	"	"	"	236	"	Cape Poldford, Great Barrier Reef, Cooktown	
019	1554	"	"	"	"	"	Great Barrier Reef, Cape Flattery	
020	1555	204:22:49	194:59	"	231	"	Bougainville Island, Ruka Island in Sunlight	
021	AST-19-1556	204:22:50	195:00	"	"	"	"	
022	1557	"	"	"	"	"	Clouds over Pacific Ocean	
023	1558	"	"	"	"	"	"	
024	1559	"	"	"	"	"	"	
025	1560	"	"	"	"	"	"	
026	AST-19-1561	"	"	"	"	"	"	
027	1562	"	"	"	"	"	"	
028	1563	"	"	"	"	"	Clouds out of Focus	
029	1564	"	"	"	"	"	"	
030	1565	204:23:00	195:10	"	232	"	Midway I.	

Frame No.	NASA JSC Photo No.	Time of Photo GMT	Rev. No.	Altitude (km)	Lens (mm)	Photograph Description, Location, Subject, etc.
031	AST-19-1566	"	124	"	50	Clouds over Pacific Ocean
032	1567	204:23:11	"	222	"	British Columbia, Coastal Mts., Taseko Lakes, Clouds
033	1568	"	"	"	"	British Columbia, Coastal Mts., Taseko Lakes, Clouds
034	1569	204:23:12	"	"	"	-Alberta, Rocky Mts., N. Saskatchewan River
035	1570	"	"	"	"	"
036	AST-19-1571	"	"	"	"	"
037	1572	204:23:22	125	225	"	NY-NJ-CT-PA, New York City, Long Island, Very Heavy Haze
038	1573	"	"	"	"	Clouds over Atlantic Ocean, N. of Bermuda
039	1574	"	"	"	"	Venezuela-Trinidad, Golfo de Paria, Isla De Margarita
040	1575	205:13:42	134	209	"	Barbados Island
041	AST-19-1576	205:13:43	"	210	"	Ecuador, Galapagos Islands, Isla Isabela, Isla Fernandina, Unique Clouds
042	1577	205:19:10	"	209	"	"
043	1578	"	"	"	"	"
044	1579	"	"	"	"	"
045	1580	"	"	"	"	"
046	AST-19-1581	205:19:11	"	"	"	"
047	1582	"	"	"	"	"
048	1583	205:19:12	"	210	"	Costa Rica, Pen. de Osa, Puerto Quepos
049	1584	"	"	"	"	Costa Rica, Puerto Cortez, Golfo de Nicoya
050	1585	"	"	"	"	Pen. de Osa, Puerto Limon, Golfo de Nicoya
051	AST-19-1586	"	"	211	"	"
052	1587	205:19:13	"	"	"	"
053	1588	"	"	212	"	"
054	1589	"	"	"	"	Caribbean Sea, Serranilla Bank, Quitte Suero Bank
055	1590	205:19:14	"	"	"	"
056	AST-19-1591	"	135	"	"	Jamaica, Blurred-Dirty Window
057	1592	"	"	"	"	"
058	1593	205:19:15	"	"	"	Cuba, Guantanamo Bay, Santiago de Cuba, Guantanamo Blurred
059	1594	205:19:16	"	"	"	Bahamas, Acklins, Long, Crooked, Run, San Salvador Is.
060	1595	"	"	"	"	Clouds, East of Bahamas
061	AST-19-1596	"	"	"	"	"
062	1597	"	"	"	"	Clouds over Atlantic Ocean SW of Bermuda
063	1598	205:19:20	"	214	"	Bermuda Island
064	1599	211:30	"	"	"	Clouds over Atlantic Ocean
END OF ROLL						

APOLLO SOYUZ TEST PROJECT (Stafford-Brand-Slayton) JULY 15-24, 1975

Film/Magazine Identification No.		EX-09	Laboratory Roll No.		20	Camera Hasselblad Reflex, 70-mm Data		Model 500EL, NASA Modified	Film 70-mm Ektachrome, MS, Type QX-807 ASA = 64	Photograph Description, Location, Subject, etc.	
Frame No.	NASA JSC Photo No.	Time of Photo GWT	Rev. No.	Altitude (Kft)	Lens (mm)						
001	AST-20-1600	203:20:25	168:35	218	50	Clouds over Pacific off California, Overexposed					
002	-1601	"	"	"	"						
003	-1602	"	"	"	"						
004	-1603	"	"	219	"						
005	-1604	"	"	"	"						
006	AST-20-1605	"	"	"	"						
007	-1606	203:20:26	168:36	"	"						
008	-1607	"	"	"	"	California, San Francisco, Point Reyes, Santa Cruz, Overexposed					
009	-1608	"	"	"	"	Monterey Bay, Overexposed					
010	-1609	"	"	"	"	San Joaquin Valley, Overexposed					
011	AST-20-1610	"	"	"	"						
012	-1611	"	"	"	"	San Joaquin Valley, Sierra Nevada, Overexposed					
013	-1612	203:20:27	168:37	220	"	California-Nevada, Lake Tahoe, Sierra Nevada, Overexposed					
014	-1613	"	"	"	"	Pyramid Lake, Overexposed					
015	-1614	"	"	"	"	Nevada-California, Lake Tahoe, Walker Lake, Overexposed					
016	AST-20-1615	"	"	"	"	Nevada, Pyramid Lake, Humboldt River, Overexposed					
017	-1616	"	"	"	"	Humboldt River, Overexposed					
018	-1617	"	"	"	"	Nevada-Idaho, Overexposed					
019	-1618	203:20:28	168:38	221	"	Nevada-Oregon-Idaho, Owyhee River, Overexposed					
020	-1619	"	"	"	"	Idaho-Oregon-Nevada, Humboldt River, Overexposed					
021	AST-20-1620	"	"	"	"	Idaho-Nevada, Snake River, Bruneau River, Overexposed					
022	-1621	"	"	"	"	Idaho, Snake River, Twin Falls, Overexposed					
023	-1622	"	"	"	"	Pocatillo, Overexposed					
024	-1623	"	"	"	"	American Falls, Overexposed					
025	-1624	203:20:29	168:39	222	"	Idaho Falls, Overexposed					
026	AST-20-1625	"	"	"	"	Wyoming-Montana, Snake River, Overexposed					
027	-1626	"	"	"	"	Yellowstone Nat. Park, Overexposed					
028	-1627	"	"	"	"	Wyoming-Idaho-Montana, Yellowstone Nat. Park, Overexposed					
029	-1628	"	"	"	"	Montana, Absaroka Mts., Overexposed					
030	-1629	"	"	223	"	Montana-Wyoming, Big Horn River, Overexposed					

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Frame No.	NASA JSC Photo No.	Time of Photo		Rev. No.	Altitude (Ym)	Lens (mm)	Photograph Description, Location, Subject, etc.	
		GMT	GET					
066	AST-20-1665			123		50	Clouds over Pacific Ocean	
067	-1666			"		"	"	"
068	-1667			"		"	"	"
069	-1653			"		"	"	"
070	-1569			"		"	"	"
071	AST-20-1670			"		"	"	"
072	-1671			"		"	"	"
073	-1672			"		"	"	"
END OF ROLL								

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Frame No.	NASA JSC Photo No.	Time of Photo GVT	Rev. No.	Altitude (ft)	Lens (mm)	Photograph Description, Location, Subject, etc.
066	AST-21-1738	204:03:51	112	217	50	China, (Chekiang-Kiangsu Prov.) Shang Hai. Mouth of Yangtze
057	-1739					(Kiangsu Prov.) Yangtze Riv. Mouth

END OF ROLL

APOLLO SOYUZ TEST PROJECT (Stafford-Brand-Slayton) JULY 15-24, 1975

Film/Magazine Identification No.		Laboratory CX-13 Roll No.		Time of Photo GMT		Rev. No.		Altitude (Km)		Lens (mm)		Photograph Description, Location, Subject, etc.	
Frame No.		NASA JSC Photo No.		Time of Photo GMT		Rev. No.		Altitude (Km)		Lens (mm)		Photograph Description, Location, Subject, etc.	
001	002	AST-22-1740	1741	197:21:55	26:05	17	17	185	60	Underexposed			
003	004	1742	1743	197:21:56	26:06	"	"	"	"	Clouds, Underexposed			
005		1744	"	"	"	"	"	"	"	"			
006	007	AST-22-1745	1746	"	"	"	"	184	"	Clouds Over Tasman Sea, Underexposed			
008	009	1747	1748	"	"	"	"	"	"	"			
010		1749	197:21:57	26:07	"	"	"	"	"	"			
011	012	AST-22-1750	1751	"	"	"	"	183	"	"			
013	014	1752	1753	"	"	"	"	"	"	"			
015		1754	199:21:58	26:08	"	"	"	"	"	"			
016	017	AST-22-1755	1756	"	"	"	"	182	"	"			
018	019	1757	1758	"	"	"	"	"	"	"			
020		1759	"	"	"	"	"	"	"	"			
021	022	AST-22-1760	1761	197:21:59	26:09	"	"	181	"	"			
023	024	1762	1763	"	"	"	"	"	"	"			
025		1764	"	"	"	"	"	"	"	"			
026	027	AST-22-1765	1766	"	"	"	"	180	"	"			
028	029	1767	1768	197:22:00	26:10	"	"	"	"	"			
030		1769	"	"	"	"	"	"	"	"			

New Zealand, Awarua Bay
 (South Island), Awarua Bay, Jackson Head
 Jackson Head, Haast River
 Coast at Haast River, Clouds
 Coast at Gillespie Point, Clouds
 Coast at Abut Head, Clouds
 Coast at Hokitika, Southern Alps, Clouds
 Southern Alps, Westport Area, Clouds
 Potuoka Area, Clouds

No.	Date of Photo	Rev.	Altitude (km)	Lens (mm)	Photograph Description, Location, Subject, etc.	
041	AST-22-1780	72	228	60	Clouds Over South Atlantic Ocean at Terminator	
042	1761	"	"	"	"	
043	1782	"	"	"	"	
044	1783	"	"	"	"	
045	1784	"	"	"	"	
046	AST-22-1785	"	"	"	"	
047	1786	"	"	"	"	
048	1787	"	"	"	"	
049	1788	"	"	"	"	
050	1789	"	"	"	"	
051	AST-22-1790	"	227	"	"	
052	1791	"	"	"	"	
053	1792	"	"	"	"	
054	1793	"	"	"	"	
055	1794	"	"	"	"	
056	AST-22-1795	"	"	"	"	
057	1796	"	"	"	"	
058	1797	"	"	"	"	
059	1798	"	"	"	"	
060	1799	"	"	"	"	
061	AST-22-1800	"	226	"	"	
062	1801	"	"	"	"	
063	1802	"	"	"	"	
064	1803	"	"	"	"	
065	1804	"	"	"	"	

Frame No.	NASA JSC Photo No.	Time of Photo		Rev. No.	Altitude (ft)	Lens (mm)	Photograph Description, Location, Subject, etc.
		Co	GET				
066	AST-22-1805	201:11:47	111:57	72	226	60	Clouds Over South Atlantic Ocean
067	1806						
068	1807						
069	1808						
070	1809						
071	AST-22-1810	201:11:48	111:58		225		
072	1811						
073	1812						
074	1813						
075	1814						
076	AST-22-1815						Blank
077	1816						Out of Focus
078	1817			134		100	
079	1818						
080	1819						
081	AST-22-1820						
082	1821						
083	1822						
084	1823						
085	1824	205:15:22	211:32		212		Central America
086	AST-22-1825						
087	1826						
088	1827						
089	1828	205:15:24	211:34	135	213		Jamaica
090	1829						
091	AST-22-1830						
092	1831						
093	1832	205:15:25	211:35				Cuba
094	1833						
095	1834						
096	AST-22-1835						
097	1836						
098	1837	205:15:26	211:36				Brown Bank
099	1838						Acklins Islands
100	1839						

Frame No.	NASA JSC Photo No.	Time of Photo GMT	Photo GET	Rev. No.	Altitude (km)	Lens (mm)	Photograph Description, Location, Subject, etc.
101	AST-22-1840	205:15:26	211:36	135	213	100	Out of Focus, Aclins Islands
102	1841			"	"	"	"
103	1842			"	"	"	"
104	1843			"	"	"	"
105	1844			"	"	"	Europe
106	AST-22-1845			"	"	"	"
107	1846			"	"	"	"
108	1847			"	"	"	"
109	1848			"	"	"	"
110	1849			"	"	"	"
111	AST-22-1850			"	"	"	Black Sea
112	1851			"	"	"	"
113	1852			"	"	"	Turkey
114	1853			"	"	"	"
115	1854			"	"	"	"
116	AST-22-1855			"	"	"	"
117	1856			"	"	"	"
118	1857			"	"	"	"
119	1858			"	"	"	"
120	1859			"	"	"	"
121	AST-22-1860	205:15:43	211:53	"	220	"	Lake Van
122	1861	"	"	"	"	"	"
123	1862	"	"	"	"	"	"
124	1863			"	"	"	Turkey-Iran
125	1864			"	"	"	"
126	AST-22-1865			"	"	"	"
127	1866			"	"	"	"
128	1867			"	"	"	"
129	1868			"	"	"	Iran
130	1869			"	"	"	"
131	AST-22-1870			"	"	"	"
132	1871			"	"	"	"
133	1872			"	"	"	Underexposed
134	1873			"	"	"	"
135	1874			"	"	"	"

Frame No.	NASA JSC Photo No.	Time of Photo GMT	Rev. No.	Altitude (ft)	Lens (mm)	Photograph Description, Location, Subject, etc.
136	AST-22-1875		135		100	Out of Focus, Underexposed
137	1876		"		"	"
138	1877		"		"	"
END OF ROLL						

APOLLO SOYUZ TEST PROJECT (Stafford-Brand-Slayton) JULY 15-24, 1975

Film/Magazine Identification No.		Laboratory Roll No.		Camera Hasselblad Reflex, 70-mm. Data Model 500EL, NASA Modified		Film 70-mm Ektachrome MS, Type QX-07, Data ASA = 64	
Frame No.	NASA JSC Photo No.	Time of Photo GMT	Rev. No.	Altitude (km)	Lens (mm)	Photograph Description, Location, Subject, etc.	
001	AST-23-1878	201:23:41	123:51	222	50	Australia, South Australia, Streaky Bay, Ceduna	
002	-1879	"	"	"	"	Anxious Bay, Ceduna	
003	-1880	"	"	"	"	Gawler Range, Lake Gardner	
004	-1881	"	"	"	"	Lake Gairdner, Lake Everard	
005	-1882	201:23:42	123:52	221	"	Island Lagoon	
006	AST-23-1893	"	"	"	"	Lake Eyre, Lake Torrens	
007	-1894	"	"	"	"	Luigh Creek	
008	-1895	"	"	"	"	Flinders Range	
009	-1896	201:23:43	123:53	"	"	Lake Eyre Basin, Barcoo Creek	
010	-1897	"	"	"	"	Great Divide Range, Lake Buchanan	
011	AST-23-1898	"	"	"	"	Queensland, Lake Yamma Yamma, Barcoo Creek	
012	-1899	"	"	"	"	Queensland, Lake Yamma Yamma, Barcoo Creek	
013	-1900	201:23:44	123:54	"	"	Queensland, Lake Yamma Yamma, Barcoo Creek	
014	-1901	"	"	"	"	Great Divide Range, Lake Buchanan	
015	-1902	"	"	"	"	Queensland, Lake Yamma Yamma, Barcoo Creek	
016	AST-23-1893	201:23:45	123:55	220	"	Lihov Reefs, Diamond Islets, Coral Sea	
017	-1894	"	"	"	"	Herald's Surprise, Coral Sea	
018	-1895	201:23:46	123:56	219	"	Tregosse Reefs, Coral Sea	
019	-1896	"	"	"	"	Louisalpe Archipelago, Tagula Island, Rosel Island, Calvados Chain	
020	-1897	"	"	"	"	Clouds Over Pacific Ocean	
021	AST-23-1898	201:23:47	123:57	218	"	Clouds Over Pacific Ocean	
022	-1899	"	"	"	"	Clouds Over Pacific Ocean	
023	-1900	"	"	"	"	Clouds Over Pacific Ocean	
024	-1901	"	"	"	"	Clouds Over Pacific Ocean	
025	-1902	"	"	"	"	Clouds Over Pacific Ocean	
026	AST-23-1903	201:23:59	124:09	222	"	Atoll, Partially Obscured, Probably Midway Island	
027	-1904	"	"	"	"	Clouds Over Pacific Ocean	
028	-1905	"	"	"	"	Clouds Over Pacific Ocean	
029	-1906	"	"	"	"	Clouds Over Pacific Ocean	
030	-1907	202:12:58	137:08	224	250	Chile, Punta Lavapie, Isla Santa Maria, Humboldt Current	

Frame No.	MASA 15C Photo No.	Time of Photo	Rev. No.	Altitude (ft.)	Lens (mm.)	Photograph Description, Location, Subject, etc.
031	AST-23-1938	203:13:55	68	224	250	Chile, Snowcovered Andes (SW Santiago) Mountains sticking up through solid cloud
032	-1939	202:13:00	"	223	"	Argentina, Dunes East of San Juan, Overexposed
033	-1910	"	"	"	"	"
034	-1911	"	"	"	"	"
035	-1912	"	"	"	"	"
036	AST-23-1913	"	"	"	"	"
037	-1914	"	"	"	"	"
038	-1915	203:13:01	"	222	"	" (Formosa) Los Lomitas
039	-1916	203:13:02	"	221	"	Paraguay (Presidencia Hayes), Chaco, Fortin Gen. Aquino
040	-1917	"	"	"	"	Concepcion, Rio Paraguai
041	AST-23-1918	203:13:03	"	220	"	Paraguay-Brazil, Chaco
042	-1919	"	"	"	"	"
043	-1920	203:13:04	"	"	"	"
044	-1921	"	"	219	"	Paraguay, Chaco, Fortin Florida
045	-1922	"	"	"	"	Brazil-Paraguay, Chaco, Bahia Negro
046	AST-24-1923	203:13:05	"	"	"	Bolivia-Brazil-Paraguay, Bahia Negro, Rio Paraguai
047	-1924	"	"	"	"	Underexposed
048	-1925	203:13:16	"	218	"	Brazil, Serra De Maracaju
049	-1926	"	"	"	"	"
050	-1927	203:13:17	"	"	"	"
051	AST-24-1928	"	"	"	"	"
052	-1929	"	"	"	"	"
053	-1930	203:13:08	"	"	"	"
054	-1931	"	"	"	"	"
055	-1932	"	"	"	"	Clouds Over Atlantic Ocean Off Brazil
056	AST-24-1933	"	"	"	"	"
057	-1934	"	"	"	"	"
058	-1935	"	"	"	"	Atlantic Ocean, West of Cape Verde Islands
059	-1936	"	"	"	"	"
060	-1937	"	"	"	"	"
061	AST-24-1938	203:13:18	"	222	"	Clouds Over Atlantic Ocean
062	-1939	203:13:19	"	"	"	Canary Islands, Hefiro
063	-1940	"	"	"	"	"
064	-1941	203:13:23	"	"	"	Portugal, Cabo Sao Vincente
065	-1942	"	"	"	"	"

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APOLLO SOYUZ TEST PROJECT (Stafford-Brand-Slayton) JULY 15-24, 1975

Film/Magazine Identification No.		CX-17	Laboratory Roll No.	24	Camera Data	Model	500EL, NASA Modified	Film Data	70-mm Ektachrome MS, Type QX-807	ASA = 64
Frame No.	NASA JSC Photo No.	Time of Photo GCT	Rev. No.	Altitude (Km)	Lens (mm)	Photograph Description, Location, Subject, etc.				
001	AST-24-1945		135		50	Clouds Over Water, Overexposed				
002	-1947					Clouds Over Atlantic Ocean				
003	-1948									
004	-1949									
005	-1950									
006	AST-24-1951									
007	-1952	205:15:34		222		England, Lundy Island, Baggy Point, Hartland Point, Clouds				
008	-1953	205:15:35				France-Belgium, Mouth of Somme, Abbeville, Clouds, Haze				
009	-1954	205:15:36				Netherlands, Belgium, IJsselmeer, Clouds, Haze, Dirty Window				
010	-1955					Netherlands, Coastal Areas, Clouds, Haze, Dirty Window				
011	AST-24-1956					Netherlands-Germany, Den Helder, Europort, Clouds, Haze, Dirty Window				
012	-1957	205:15:37				Central Europe-Czechoslovakia, Clouds, Haze, Dirty Window				
013	-1958									
014	-1959	205:15:38				Central Europe-Transylvania, Clouds, Haze, Dirty Window				
015	-1960	205:15:39				Rumania-USSR (Moldavia), Galati, Danube River, Haze				
016	AST-24-1961					Rumania-Bulgaria-USSR (Moldavia-Ukrainian SSR) Danube River, Haze				
017	-1962					Rumania-USSR (Moldavia-Ukrainian SSR) Danube River, Braila				
018	-1963									
019	-1964					" " " " Mouth of Danube River, Galati				
020	-1965					" " " " " " " " " " Haze				
021	AST-24-1966					" " " " (Ukrainian SSR) Mouth of Danube River, Haze				
022	-1967					" " " " " " " " " " Black Sea, Haze				
023	-1968	205:15:40		221		USSR (Ukrainian SSR) Orimea, Mouth of Dnieper, Yevpatoriya				
024	-1969	205:15:41				Clouds Over Black Sea, Sinop, Dafra, Samsun				
025	-1970					Black Sea, Turkey				
026	AST-24-1971					Clouds Over Black Sea				
027	-1972					" " " " Area				
028	-1973					" " " " " "				
029	-1974					" " " " " "				
030	-1975	205:15:42				Turkey-USSR, Black Sea, Clouds				

Frame No.	NASA JSC Photo No.	Time of Photo GMT	Rev. No.	Altitude (km)	Lens (mm)	Photograph Description, Location, Subject, etc.
066	AST-26-2011	212:16:45	135	213	250	Gulf of Mexico
067	-2012	212:55	-	-	-	"
068	-2013	212:56	-	-	-	" , Ship Wakes
069	-2014	-	-	-	-	" , Oil Slicks
070	-2015	-	-	-	-	" , Oil Slicks, Sun Glint
071	AST-24-2016	212:16:47	-	214	-	"
072	-2017	212:57	-	-	-	"
073	-2018	-	-	-	-	Florida, Cape San Blas, St. George Island, Apalachicola Bay
074	-2019	-	-	-	-	Florida, Choctawhatchee Bay, Santa Rosa Beach

END OF ROLL

APOLLO SOYUZ TEST PROJECT (Stafford-Brand-Slayton) JULY 15-24, 1975

Film/Magazine Identification No.		Laboratory Roll No.		Camera Hasselblad, 70-mm. Data with 1-cm Film 70-mm. Ektachrome MS, Type QX-807	
CX-19		25		70-mm. Ektachrome MS, Type QX-807	
NASA JSC Photo No.		Time of Photo GMT		Rev. No.	
AST-25-2020		2020		2020	
001		2021		2021	
002		2022		2022	
003		2023		2023	
004		2024		2024	
005		2025		2025	
AST-25-2023		2026		2026	
006		2027		2027	
007		2028		2028	
008		2029		2029	
009		2030		2030	
010		2031		2031	
AST-25-2030		2032		2032	
011		2033		2033	
012		2034		2034	
013		2035		2035	
014		2036		2036	
015		2037		2037	
AST-25-2035		2038		2038	
016		2039		2039	
017		2040		2040	
018		2041		2041	
019		2042		2042	
020		2043		2043	
AST-25-2040		2044		2044	
021		2045		2045	
022		2046		2046	
023		2047		2047	
024		2048		2048	
025		2049		2049	
AST-25-2045		2050		2050	
026		2051		2051	
027		2052		2052	
028		2053		2053	
029		2054		2054	
030		2055		2055	

For detailed information on the MA-011 experiment contact:
 NASA - Marshall Space Flight Center
 ATTN: Dr. R. E. Allen, Code: EH35
 Huntsville, Alabama 35812
 (AC/205 453-3535)

Photograph Description, Location, Subject, etc.

Electrophoresis Technology Experiment (MA-011)

Frame No.	MASA JSC Photo No.	Time of Photo GMT	Rev. No.	Altitude (km)	Lens (mm)	Photograph Description, Location, Subject, etc.
031	AST-25-2050	For detailed information on the MA-011 experiment contact: NASA - Marshall Space Flight Center ATTN: Dr. R. E. Allen Code: EH35 Huntsville, Alabama 35812 (AC/205 453-3535)			80	Electrophoresis Technology Experiment (MA-011)
032	2051				"	
033	2052				"	
034	2053				"	
035	2054				"	
036	AST-25-2055				"	
037	2056				"	
038	2057				"	
039	2058				"	
040	2059				"	
041	AST-25-2060				"	
042	2061				"	
043	2062				"	
044	2063				"	
045	2064				"	
046	AST-25-2065				"	
047	2066				"	
048	2067				"	
049	2068				"	
050	2069				"	
051	AST-25-2070				"	
052	2071				"	
053	2072				"	
054	2073				"	
055	2074				"	
056	AST-25-2075				"	
057	2076				"	
058	2077				"	
059	2078				"	
060	2079				"	
061	AST-25-2080				"	
062	2081				"	
063	2082				"	
064	2083				"	
065	2084				"	

Frame No.	NASA JSC Photo No.	Time of Photo GMT	Rev. No.	Altitude (km)	Lens (mm)	Photograph Description, Location, Subject, etc.
101	AST-25-2120				80	Electrophoresis Technology Experiment (MA-011), Underexposed
102	2121					
103	2122					
104	2123					
105	2124					
106	AST-25-2125					
107	2126					
108	2127					
109	2128					
110	2129					
111	AST-25-2130					
112	2131					
113	2132					
114	2133					
115	2134					
116	AST-25-2135					
117	2136					
118	2137					
119	2138					
120	2139					
121	AST-25-2140					
122	2141					
123	2142					
124	2143					
125	2144					
126	AST-25-2145					
127	2146					
128	2147					
129	2148					
130	2149					
131	AST-25-2150					
132	2151					
133	2152					
134	2153					
135	2154					

Blank

Out of Focus, Clouds Over Water

Frame No.	NASA JSC Photo No.	Time of Photo GMT	Rev. No.	Altitude (km)	Lens (mm)	Photograph Description, Location, Subject, etc. Electrophoresis Technology Experiment (PA-011)
066	AST-25-2085	for detailed information on the PA-011 experiment contact: NASA - Marshall Space Flight Center ATTN: Dr. R. E. Allen Code: F1135 Huntsville, Alabama 35812 (AC/205 453-3535)				
067	2086					
068	2087					
069	2088					
070	2089	AST-25-2090 2091 2092 2093 2094				
071	2090					
072	2091					
073	2092					
074	2093	AST-25-2095 2096 2097 2098 2099				
075	2094					
076	2095					
077	2096					
078	2097	AST-25-2100 2101 2102 2103 2104				
079	2098					
080	2099					
081	2100					
082	2101	AST-25-2105 2106 2107 2108 2109				
083	2102					
084	2103					
085	2104					
086	2105	AST-25-2110 2111 2112 2113 2114				
087	2106					
088	2107					
089	2108					
090	2109	AST-25-2115 2116 2117 2118 2119				
091	2110					
092	2111					
093	2112					
094	2113	AST-25-2120 2121 2122 2123 2124				
095	2114					
096	2115					
097	2116					
098	2117	AST-25-2125 2126 2127 2128 2129				
099	2118					
100	2119					

Underexposed

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Prime No.	NASA JSC Photo No.	Time of Photo GMT - CET	Rev. No.	Altitude (Km)	Lens (mm)	Photograph Description, Location, Subject, etc.
136	AST-25-2155		123		100	Out of Focus, Clouds over Water
137	2156		-		-	-
138	2157		-		-	-
139	2158		-		-	-
140	2159		-		-	-
141	AST-25-2160		-		-	-
142	2161		-		-	-
143	2162		-		-	-
144	2163		-		-	-
145	2164	204:21:25 193:35	-	222	-	Large Storm Vortex
146	AST-25-2165		-	-	-	-
147	2166		-	-	-	-
148	2167		-	-	-	-
149	2168		-	-	-	-
150	2169		-	-	-	-
151	AST-25-2170		-	-	-	-
152	2171	204:21:40 193:50	-	223	-	Snow Covered Cascade Mountains
153	2172		-	-	-	-
END OF ROLL						

Frame No.	NASA JSC Photo No.	Time of Photo GMT	Rev. No.	Altitude (km)	Lens (mm)	Photograph Description, Location, Subject, etc.
		For detailed information on the MA-011 experiment contact: NASA - Marshall Space Flight Center ATTN: Dr. R. E. Allen Code: E1035 Huntsville, Alabama 35812 (AC/205 453-3535)			00	Electrophoresis Technology Experiment (MA-011)
011	AST-26-2203					
012	2204					
013	2205					
014	2206					
015	2207					
016	AST-26-2208					
017	2209					
018	2210					
019	2211					
020	2212					
041	AST-26-2213					
042	2214					
043	2215					
044	2216					
045	2217					
046	AST-26-2218					
047	2219					
048	2220					
049	2221					
050	2222					
051	AST-26-2223					
052	2224					
053	2225					
054	2226					
055	2227					
056	AST-26-2228					
057	2229					
058	2230					
059	2231					
060	2232					
061	AST-26-2233					
062	2234					
063	2235					
064	2236					
065	2237					

APOLLO SOYUZ TEST PROJECT (Stafford-Brand-Slayton) JULY 15-24, 1975

Film/Magazine Identification No.	CX-20	Laboratory Roll No.	26	Camera Hasselblad, 70-mm Data with 1-cm Data Reseau Model 500EL, NASA Modified	Film Data	70-mm Ektachrome MS, Type CX 807 ASA - 64
Frame No.	NASA JSC Photo No.	Time of Photo GMT	Rev. No.	Altitude (km)	Lens (mm)	Photograph Description, Location, Subject, etc. Electrophoresis Technology Experiment (PA-011)
001	AST-26-2173	2174	For detailed information on the MA-011 experiment contact:		80	
002	2174					
003	2175		NASA - Marshall Space Flight Center			
004	2176		ATTN: Dr. R. E. Allen Code: EH35			
005	2177		Huntsville, Alabama 35812 (AC/205 453-3335)			
006	AST-26-2170	2179				
007	2179					
008	2180					
009	2181					
010	2182					
011	AST-26-2183	2184				
012	2184					
013	2185					
014	2186					
015	2187					
016	AST-26-2180	2189				
017	2189					
018	2190					
019	2191					
020	2192					
021	AST-26-2193	2194				
022	2194					
023	2195					
024	2196					
025	2197					
026	AST-26-2198	2199				
027	2199					
028	2200					
029	2201					
030	2202					

Frame No.	NASA JSC Photo No.	Time of Photo GMT	Rev. No.	Altitude (km)	Lens (cm)	Photograph Description, Location, Subject, etc.
		For detailed information on the PA-011 experiment contact: NASA - Marshall Space Flight Center ATTN: Dr. S. E. Allen Code: EH35 Huntsville, Alabama 35812 (AC:205 453-3535)			80	Electrophoresis Technology Experiment (PA-011)
066	AST-26- 2238					
067	2239					
068	2240					
069	2241					
070	2242					
071	AST-26- 2243					
072	2244					
073	2245					
074	2246					
075	2247					
076	AST-26- 2248					
077	2249					
078	2250					
079	2251					
080	2252					
081	AST-26- 2253					
082	2254					
083	2255					
084	2256					
085	2257					
086	AST-26- 2258					
087	2259					
088	2260					
089	2261					
090	2262					
091	AST-26- 2263					
092	2264					
093	2265					
094	2266					
095	2267					
096	AST-26- 2268					
097	2269					
098	2270					
099	2271					
100	2272					

Frame No.	NASA JSC Photo No.	Time of Photo GMT	Rev. No.	Altitude (ft)	Lens (mm)	Photograph Description, Location, Subject, etc.
101	AST-26-2273	2272			80	Electrophoresis Technology Experiment (MA-011)
102	2272					
103	2275					
104	2276					
105	2277					
		NASA - Marshall Space Flight Center ATTN: Dr. R. E. Allen Code. EN35 Huntsville, Alabama 35812 (AC/205 453-3535)				
106	AST-26-2278					
107	2279					
108	2280					
109	2281					
110	2282					
111	AST-26-2283					
112	2284					
113	2285					
114	2286					
115	2287					
116	AST-26-2288					
117	2289					
118	2290					
119	2291					
120	2292					
		Blank Out of Focus, Clouds				
121	AST-26-2293					
122	2294					
123	2295					
124	2296					
125	2297					
126	AST-26-2298					
127	2299					
128	2300					
129	2301					
130	2302					
131	AST-26-2303					
132	2304					
133	2305					
134	2306					
135	2307					

Frame No.	NASA JSC Photo No.	Time of Photo GMT	Rev. No.	Altitude (km)	Lens (cm)	Photograph Description, Location, Subject, etc.
136	AST-26-2308				100	Out of Focus, Clouds
137	2309				"	"
138	2310				"	"
139	2311				"	"
140	2312				"	"
141	AST-26-2313				"	"
142	2314				"	"
143	2315				"	"
144	2316				"	"
145	2317				"	"
146	AST-26-2318				"	"
147	2319				"	"
148	2320				"	"
149	2321				"	"
150	2322				"	"
151	AST-26-2323				"	"
152	2324				"	"
153	2325				"	"
154	2326				"	"
155	2327				"	"
156	AST-26-2328				"	"
157	2329				"	"
158	2330				"	"
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APOLLO SOYUZ TEST PROJECT (Stafford-Brand-Slayton) JULY 15-24, 1975

Film/Magazine Identification No.	CX-08	Laboratory Roll No.	27	Camera Hasselblad Reflex, 70-mm. Data Model 500EL, NASA Modified	Film Date 70-mm Ektachrome MS, Type QX-807, ASA #64	
Frame No.	NASA JSC Photo No.	Time of Photo GMT	Rev. No.	Altitude (km)	Lens (mm)	Photograph Description, Location, Subject, etc.
001	AST-27-2331		72		50	Clouds
002	2332	201:11:45	-	230	-	Black Sky
003	2333	201:11:55	-	-	-	Black Sky
004	2334	201:11:46	-	-	-	Earth Limb, Faint at Sunrise
005	2335		-	-	-	Earth Limb, Banding at Sunrise
006	AST-27-2336	201:11:47	-	-	-	Earth Limb at Sunrise, East of Argentina
007	2337		-	-	-	" " " " " "
008	2338		-	-	-	" " " " " "
009	2339	201:11:48	-	-	-	" " " " " "
010	2340	201:13:19	73	220	250	Argentina, Dunes in San Juan Dept., Rio Bermato
011	AST-27-2341		-	-	50	" " " " " "
012	2342		-	-	-	" " " " " "
013	2343		-	-	-	" " " " " "
014	2344		-	-	-	" " " " " "
015	2345	201:13:21	-	219	-	Paraguay, Chaco Boreal
016	AST-27-2346		-	-	-	" " " " " "
017	2347		-	-	-	" " " " " "
018	2348	201:13:23	-	210	-	Brazil (Mato Grosso-Golas) Rio Araguata, Rio Das Mortes
019	2349		-	-	-	" " " " " "
020	2350		-	-	-	" " " " " "
021	AST-27-2351		-	-	-	Clouds Over Atlantic Ocean
022	2352		-	-	-	" " " " " "
023	2353		-	-	-	" " " " " "
024	2354		-	-	-	" " " " " "
025	2355	201:13:36	-	219	-	Cape Verde Islands, Sao Antao, Sao Vincente, Sao Nicholas, Boa Vista
026	AST-27-2356	201:13:38	-	-	-	Canary Islands, Morocco
027	2357		-	-	-	" " " " " "
028	2358		-	-	-	" " " " " "
029	2359	201:13:39	-	-	-	Morocco-Spain-Portugal, Strait of Gibraltar
030	2360		-	-	-	" " " " " "

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Frame No.	NASA JSC Photo No.	Time of Photo GMT	Rev. No.	Altitude (ft)	Lens (mm)	Photograph Description, Location, Subject, etc.
066	AST-27-2396	201:15:04	74	219	50	Clouds Over Atlantic Ocean With Wave front
067	2397	"	"	"	"	"
068	2398	"	"	"	"	"
069	2399	"	"	"	"	"

END OF ROLL

APOLLO SOYUZ TEST PROJECT (Stafford-Brand-Slayton) JULY 15-24, 1975

Film/Magazine Identification No.		IR-01	Laboratory Roll No.	28	Camera Data	Hasselblad Reflex, 70-mm. Model 500EL, NASA Modified	Film Data	Kodak, Multispectral Infrared, Aerial, Type 50-289, 70-mm
Frame No.	NASA JSC Photo No.	Time of Photo GWT	Rev. No.	Altitude (Km)	Lens (mm)	Photograph Description, Location, Subject, etc.		
001	AST-28-2400	For detailed information on the Stratospheric Aerosol Measurement (SAM) (PA-007) Experiment, see: Dr. Theodore J. Pepin Department of Physics and Astronomy University of Wyoming Laramie, Wyoming 82071			250	Solar Disc Experiment (VA-007)		
002	2401				"			
003	2402				"			
004	2403				"			
005	2404				"			
006	AST-28-2405				"			
007	2406				"			
008	2407				"			
009	2408				"			
010	2409				"			
011	AST-28-2410				"			
012	2411				"			
013	2412				"			
014	2413				"			
015	2414				"			
016	AST-28-2415				"			
017	2416				"			
018	2417				"			
019	2418				"			
020	2419				"			
021	AST-28-2420				"			
022	2421				"			
023	2422				"			
024	2423				"			
025	2424				"			
026	AST-28-2425				"			
027	2426				"			
028	2427				"			
029	2428				"			
030	2429				"			

No.	Inst. No.	Time of Photo	Rev.	Altitude	Lens	Photograph Description, Location, Subject, etc.
			No.	(km)	(mm)	
C1	AST-26-2430	For detailed information on the Stratospheric Aerosol Measurement (SAM) (MA-007) Experiment, see:				
031	2431	Dr. Theodore J. Pepin				
033	2432	Department of Physics and Astronomy				
034	2433	University of Wyoming				
035	2434	Laramie, Wyoming 82071				
036	AST-26-2435					
037	2436					
038	2437					
039	2438					
040	2439					
041	AST-26-2440					
042	2441					
043	2442					
044	2443					
045	2444					
046	AST-26-2445					
047	2446					
048	2447					
049	2448					
050	2449					
051	AST-26-2450					
052	2451					
053	2452					
054	2453					
055	2454					
056	AST-26-2455					
057	2456					
058	2457					
059	2458					
END OF ROLL						

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APOLLO SOYUZ TEST PROJECT (Stafford-Brand-Slayton) JULY 15-17, 1975

Film/Magazine Identification No.		IR-02	Laboratory Roll No.	29	Camera Hasselblad Reflex, 70-mm., Model 500EL, NASA Modified	Film Kodak, Multispectral Infrared, Aerial, Data Type 50-289, 70-mm
Frame No.	NASA JSC Photo No.	Time of Day GMT	Rev. No.	Altitude (km)	Lens (mm)	Photograph Description, Location, Subject, etc.
001	AST-29-2459				250	Solar Disc Experiment (MA-007)
002	2460				"	"
003	2461				"	"
004	2462				"	"
005	2463				"	"
006	AST-29-2464				"	"
007	2465				"	"
008	2466				"	"
009	2467				"	"
010	2468				"	"
011	AST-29-2469				"	"
012	2470				"	"
013	2471				"	"
014	2472				"	"
015	2473				"	"
016	AST-29-2474				"	"
017	2475				"	"
018	2476				"	"
019	2477				"	"
020	2478				"	"
021	AST-29-2479				"	"
022	2480				"	"
023	2481				"	"
024	2482				"	"
025	2483				"	"
026	AST-29-2484				"	"
027	2485				"	"
028	2486				"	"
029	2487				"	"
030	2488				"	"

For detailed information on the Stratospheric Aerosol Measurement (SAM) (MA-007) Experiment, see:
Dr. Theodore J. Pepin
Department of Physics and Astronomy
University of Wyoming
Laramie, Wyoming 82071

Frame No.	NASA JSC Photo No.	Time of Photo GWT	Altitude (ft)	Rev. No.	Altitude (ft)	Lens (mm)	Photograph Description, location, subject, etc.
031	AST-29-2489					250	Solar Disc Experiment (PA-007)
032	2490						Blank
033	2491						Solar Disc Experiment (PA-007)
034	2492						
035	2493						
036	AST-29-2494						
037	2495						
038	2496						
039	2497						
040	2498						
041	AST-29-2499						
042	2500						
043	2501						
044	2502						
045	2503						
046	AST-29-2504						
047	2505						
048	2506						
049	2507						
050	2508						
051	AST-29-2509						
052	2510						
053	2511						
054	2512						
055	2513						
056	AST-29-2514						
057	2515						
058	2516						
059	2517						
060	2518						
061	AST-29-2519						
062	2520						
063	2521						
064	2522						
065	2523						

Frame No.	NASA JSC Photo No.	Time of Photo GMT GET	Rev. No.	Altitude (Km)	Lens (mm)	Photograph Description, Location, Subject, etc.
066	AST-29-2524				250	Solar Disc Experiment (MA-007)
067	2525				"	"
068	2526				"	"
069	2527				"	"
070	2528				"	"
071	AST-29-2529				"	"
072	2530				"	"
073	2531				"	"
074	2532				"	"
075	2533				"	"
076	AST-29-2534				"	"
077	2535				"	"
078	2536				"	"
079	2537				"	"
080	2538				"	"
081	AST-29-2539				"	"
082	2540				"	"
END OF ROLL						

For detailed information on the
Stratospheric Aerosol Measure-
ment (SAM) (MA-007) Experiment,
see:

Dr. Theodore J. Pepin
Department of Physics and Astronomy
University of Wyoming
Laramie, Wyoming 82071

Frame No.	NASA JSC Photo No.	Time of Photo		Rev. No.	Altitude (km)	Lens (mm)	Photograph Description, Location, Subject, etc.
		GMT	GET				
031	AST-30-2571			76		50	Clouds, Overexposed
032	-2572						
033	-2573						
034	-2574	201:18:10	118:20		226		Gulf of St. Lawrence, Magadalen Islands, Cape Breton Island
035	-2575						Clouds, Blurred, Overexposed
036	AST-30-2576	201:19:05	119:15		230		Earth Limb, No Exposure
037	-2577						
038	-2578	201:19:06	119:16				" " At Sunrise, Very Faint
039	-2579						" " " " " " Faint
040	-2580						" " " " " " " "
041	AST-30-2581	201:19:07	119:17				" " " " " " " "
042	-2582						" " " " " " " "
043	-2583						" " " " " " " "
044	-2584	201:19:09	119:18				" " " " " " " "
045	-2585	201:19:15	119:25		220		Clouds Over Pacific Ocean
046	AST-30-2586	201:19:29	119:28		218		Tuvalu Islands, Raiivae Atoll
047	-2587	201:19:29	119:29				Tuvalu Islands, Makemo, Marutea, Nihirv, Marokav
048	-2588	201:21:07	121:17	77	226		Idaho, Snake River Plains, Lava Flows
049	-2589	201:21:08	121:18		227		Montana, Fort Peck Reservoir, Milk-Missouri Rivers Looking North
050	-2590	201:21:09	121:19		228		North Dakota, Garrison Reservoir, Haze
051	AST-30-2591	201:21:12	121:22		229		Ontario, Lake Nipigon
052	-2592	201:21:13	121:23				" " Abitibi River, Mississipi River
053	-2593				230		Ontario-Quebec, Timmins, Hight Hawk Lake
054	-2594	201:21:14	121:24				" " " " James Bay, Moose River
055	-2595				231		Quebec-Ontario, " " " " Nottaway River
056	AST-30-2596						Clouds, Overexposed
057	-2597	201:22:39	122:49	78	228	250	Washington, Port Angeles, Olympic Mountains, Strait of Juna De Fuca
058	-2598						" " Hood Canal, Olympic National Park, Haze
059	-2599	201:22:40	122:50				" " Cascades, Greenwater, Inumclaw, Eagle Gorge Reservoir
060	-2600						" " " " Snoqualmie Pass, Keechelus Lake, Cle Elum Lake
061	AST-30-2601						" " " " Keechelus Lake, Cachess Lake, Snoqualmie Pass
062	-2602	201:22:42	122:52		229		Saskatchewan, Dirty Window
063	-2603						" " " " Lake Olfenbaker, Thunder Creek
064	-2604						" " " " " " " "
065	-2605	201:22:45	122:55		230		Ontario, Lake Nipigon, Grand Bay

APOLLO SOLAR TEST PROJECT (Stefford-Brand-Slayton) JULY 15-24, 1975

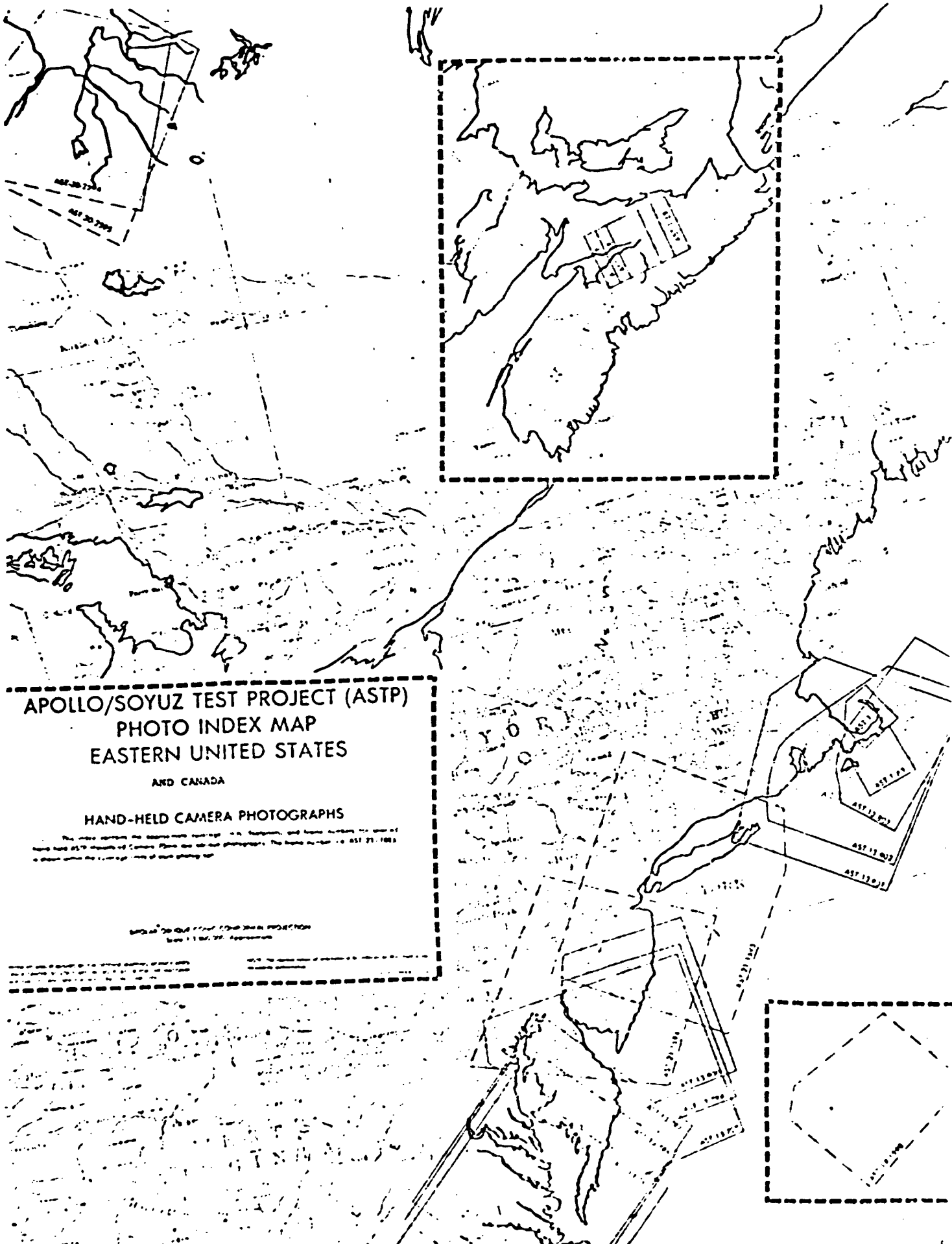
Film/Magazine Identification No.	CR-14	Laboratory Roll No.	30	Camera Data	Hasselblad Reflex, 70-mm, Model 500EL, NASA Modified	Film 70-mm Ektachrome MS Type QX-807 Date ASA = 64	
Frame No.	NASA JSC Photo No.	Time of Photo GMT	Photo GCT	Rev. No.	Altitude (km)	Lens (mm)	Photograph Description, Location, Subject, etc.
001	AST-30-2541	201:15:17	115:27	74	224	250	Spain, LaCoruna, El Ferrol Del Caudillo
002	-2542						
003	-2543	201:15:19	115:29		225		England, Devon, Wales, Bristol Channel, Hazy
004	-2544						
005	-2545	"	"	"	"	"	Dorset, Bill of Portland, Hazy
006	AST-30-2546	"	"	"	"	"	Wales, Somerset, Bristol Channel, Blurred
007	-2547			"	"	"	Dorset, Bill of Portland, Weymouth
008	-2548	201:15:20	115:30	"	"	"	Wales, Somerset, Bristol Channel, Cardiff, Hazy
009	-2549	201:15:26	115:36	"	226	"	USSR, RSFSR, Volgogradskoye, Krasny Yar, Medveditsa River, Hazy
010	-2550	"	"	"	"	"	Medveditsa River, Krasny Yar, Hazy
011	AST-30-2551	"	"	"	"	"	"
012	-2552	"	"	"	"	"	Mikheylouka, Hazy
013	-2553	"	"	"	"	"	Volgogradskoye, Volgograd, Volga River, Hazy
014	-2554	"	"	"	"	"	Volga River, Kapustin Yar, Aktau Ginsk, Hazy
015	-2555	"	"	"	"	"	Clouds, Out of Focus
016	AST-30-2556	201:15:27	115:37	"	"	"	"
017	-2557	201:15:28	115:38	"	225	"	USSR, Kazakh S.S.R., Peski Batpayasgoyr, Hazy
018	-2558			"	"	"	Clouds, Overexposed
019	-2559			"	250	"	Clouds, Out of Focus, mid-Atlantic
020	-2560			75	50		
021	AST-30-2561			"	"	"	"
022	-2562			"	"	"	"
023	-2563			"	"	"	"
024	-2564			"	"	"	Off Africa
025	-2565			"	"	"	"
026	AST-30-2566			"	"	"	"
027	-2567			"	"	"	"
028	-2568			"	"	"	"
029	-2569			"	"	"	"
030	-2570			76	"	"	Overexposed

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Frame No.	NASA JSC Photo No.	Time of Photo GMT	Rev. No.	Altitude (Km)	Lens (mm)	Photograph Description, Location, Subject, etc.
066	AST-30-2606	201:22:45	78	230	250	Ontario, Lake Nipigon, McIntyre Bay
067	-2607	-	-	-	-	Ontario, Blurred
068	-2608	201:22:47	-	229	-	Ontario-Quebec, James Bay, Harricanaw River

END OF ROLL

SECTION 9
INDEX MAPS FOR THE APOLLO-SOYUZ TEST PROJECT
(Reference 9)



**APOLLO/SOYUZ TEST PROJECT (ASTP)
PHOTO INDEX MAP
EASTERN UNITED STATES
AND CANADA**

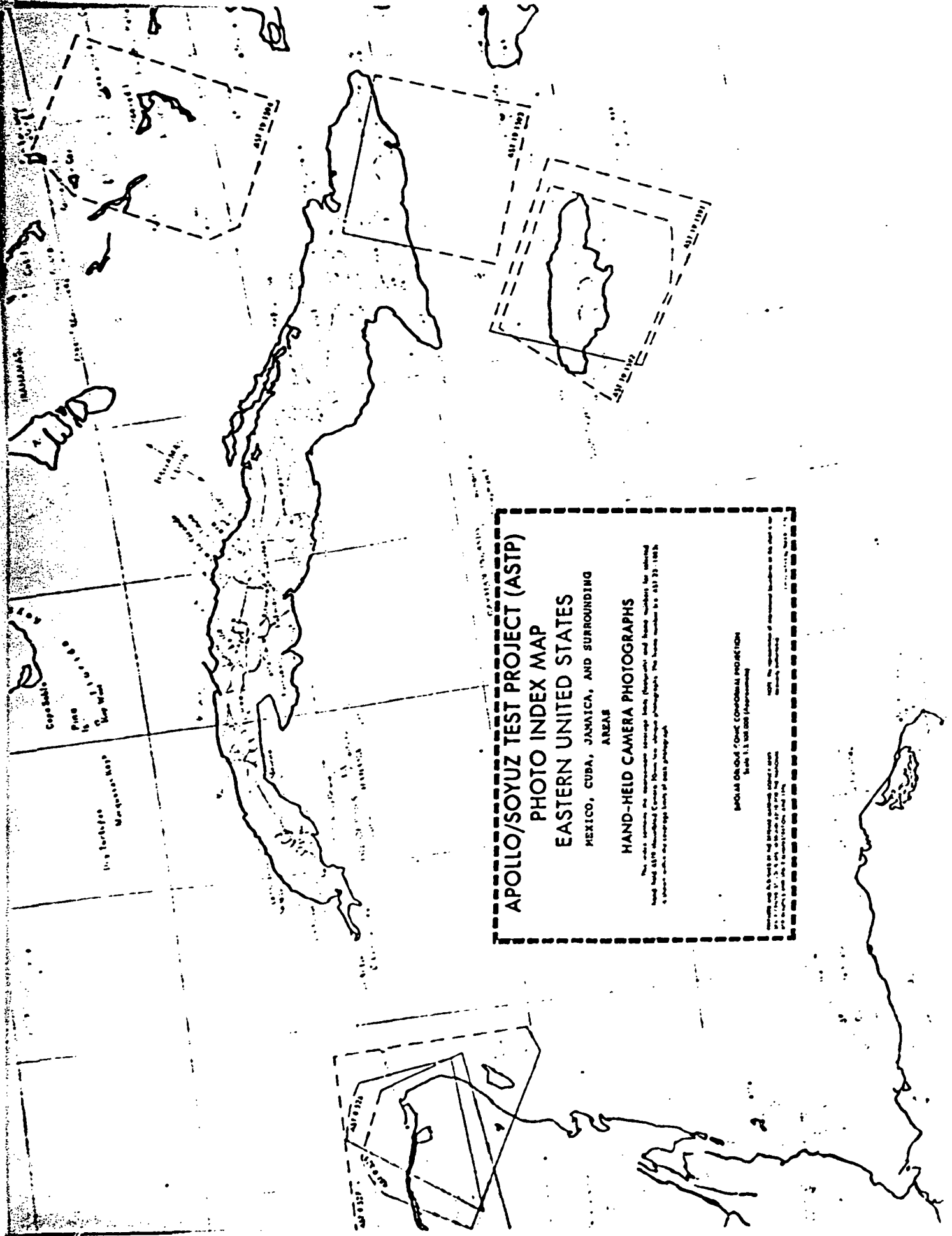
HAND-HELD CAMERA PHOTOGRAPHS

This index map shows the approximate coverage areas of hand-held camera photographs taken during the ASTP mission. The index map is not a photograph. The index map is a map of the Eastern United States and Canada. The index map is a map of the Eastern United States and Canada. The index map is a map of the Eastern United States and Canada.

Source: The Apollo/Soyuz Test Project Mission Report, Volume 1, Part 2, Appendix A.

Scale: 1:1,000,000. Approximate.

Scale: 1:1,000,000. Approximate.



APOLLO/SOYUZ TEST PROJECT (ASTP) PHOTO INDEX MAP

EASTERN UNITED STATES

MEXICO, CUBA, JAMAICA, AND SURROUNDING
AREAS

HAND-HELD CAMERA PHOTOGRAPHS

This index contains the approximate coverage limits (approximate) and frame numbers for selected
hand-held ASTP-mounted cameras. These are subject to change. For frame numbers, see ASTP 33-10876
a listing within the coverage limits of each photograph.

APOLLO ORION/SONIC COMPASSION PRODUCTION
Scale 1:1,000,000 (Approximate)

APOLLO ORION/SONIC COMPASSION PRODUCTION
Scale 1:1,000,000 (Approximate)

APOLLO/SOYUZ TEST PROJECT (ASTP) PHOTO INDEX MAP WESTERN UNITED STATES

MAPPING CAMERA PHOTOGRAPHS

The index map in the upper portion of the map shows the Mapping Camera Photo coverage. The frame number of each photograph is indicated on the map. The map is divided into 10-degree squares. The frame number of each photograph is indicated on the map. The map is divided into 10-degree squares. The frame number of each photograph is indicated on the map.

HAND-HELD CAMERA PHOTOGRAPHS

The index map in the lower portion of the map shows the Hand-Held Camera Photo coverage. The frame number of each photograph is indicated on the map. The map is divided into 10-degree squares. The frame number of each photograph is indicated on the map.

SPHERICAL CONIC CONIC CONIC PROJECTION
Scale 1:2,000,000

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Washington, D.C. 20546

1968

1968

0 100 200 300 400 500 600 700 800 900 1000

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0 100 200 300 400 500 600 700 800 900 1000

0 100 200 300 400 500 600 700 800 900 1000

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0 100 200 300 400 500 600 700 800 900 1000

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**APOLLO/SOYUZ TEST PROJECT (ASTP)
PHOTO INDEX MAP
WESTERN UNITED STATES
AND MEXICO
MAPPING CAMERA PHOTOGRAPHS**

The index map in this volume is a portion of the 1:500,000 scale map of the Western United States and Mexico, published by the National Geographic Society. It shows the locations of the Apollo/Soyuz Test Project (ASTP) photography sites in the Western United States and Mexico. The map is divided into 1-degree squares, each of which is identified by a letter and a number. The letters A through Z are used for the horizontal axis, and the numbers 1 through 36 are used for the vertical axis. The map is oriented with North at the top.

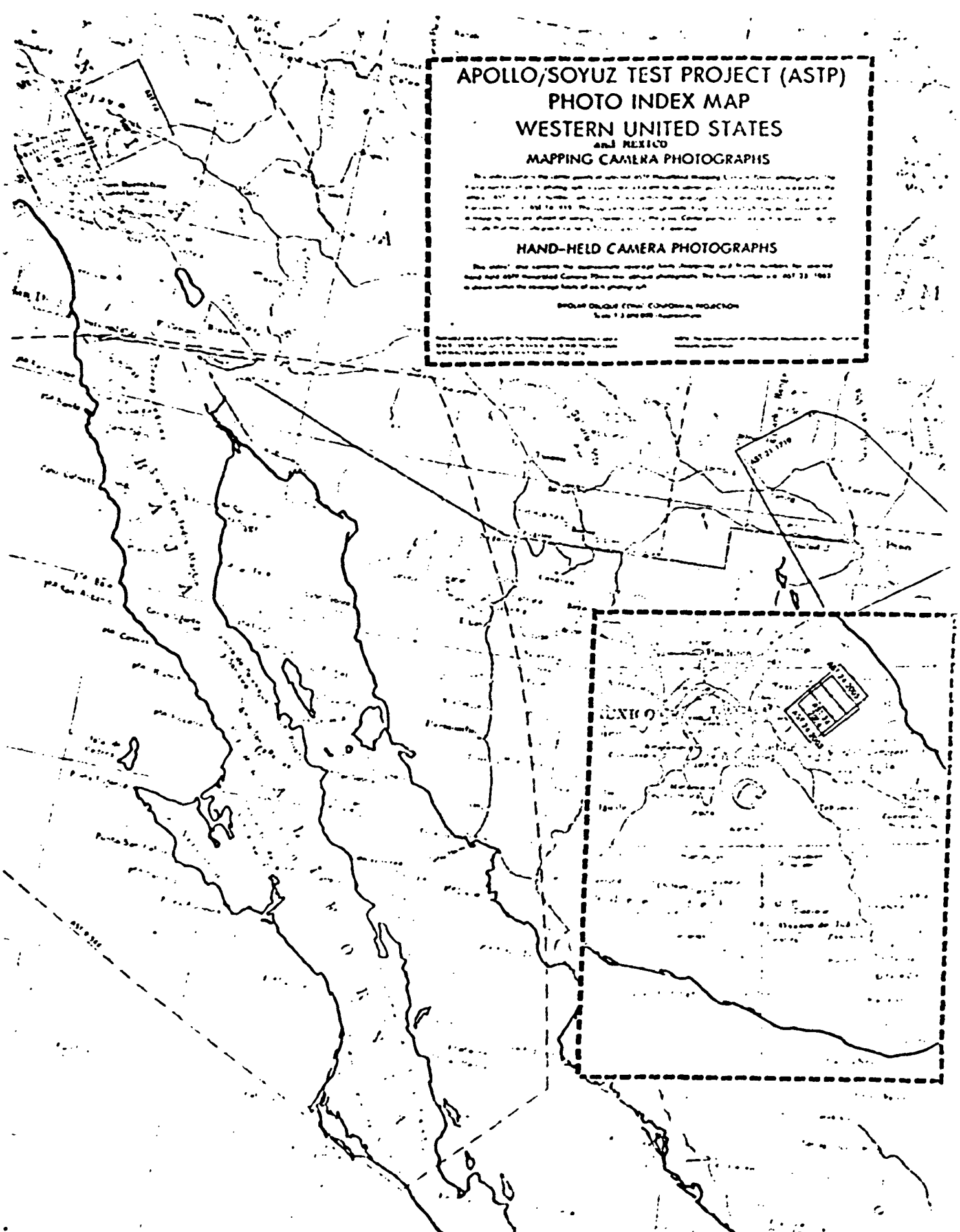
HAND-HELD CAMERA PHOTOGRAPHS

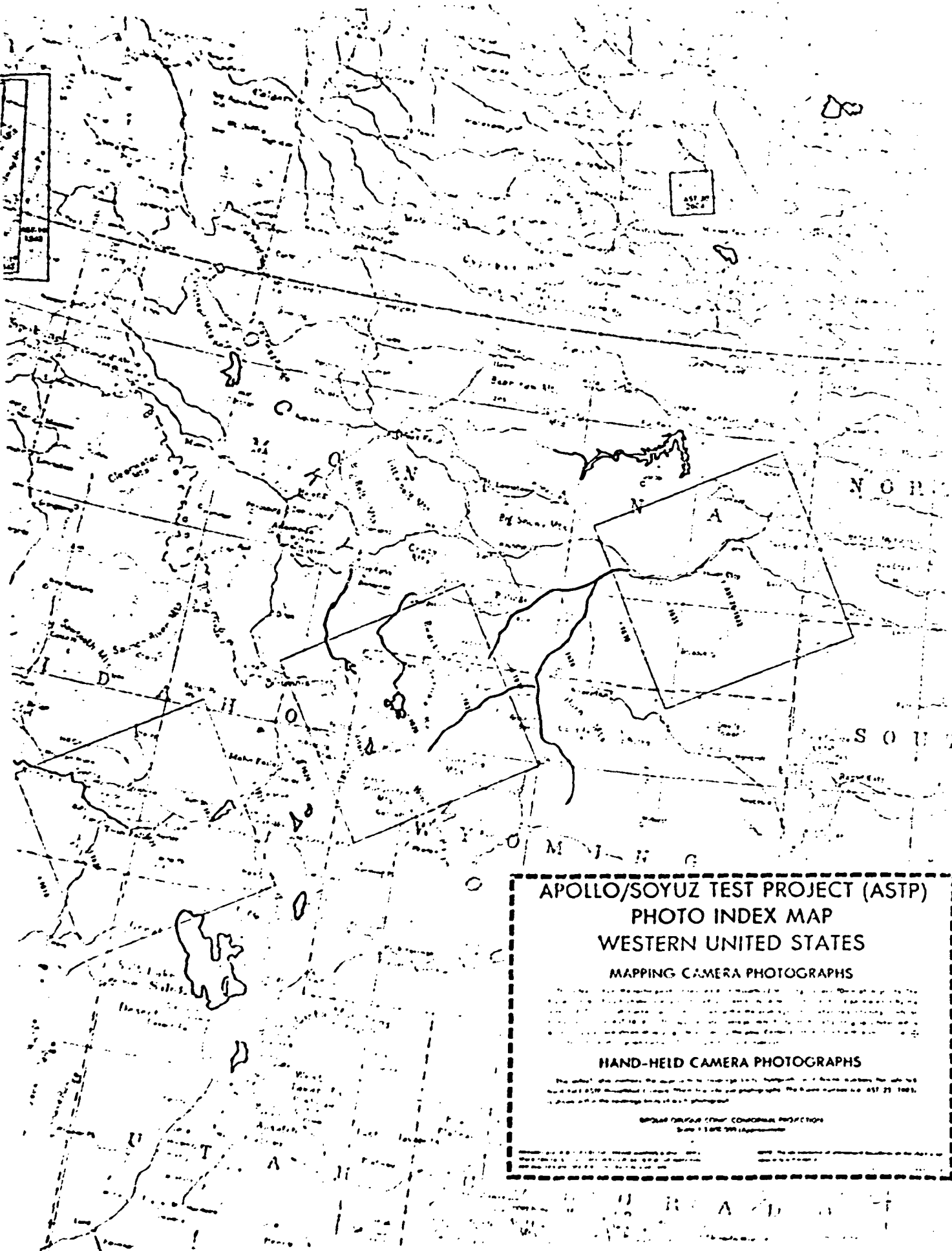
This index map contains the approximate coverage limits for the Apollo/Soyuz Test Project (ASTP) photography sites in the Western United States and Mexico. The map is divided into 1-degree squares, each of which is identified by a letter and a number. The letters A through Z are used for the horizontal axis, and the numbers 1 through 36 are used for the vertical axis. The map is oriented with North at the top.

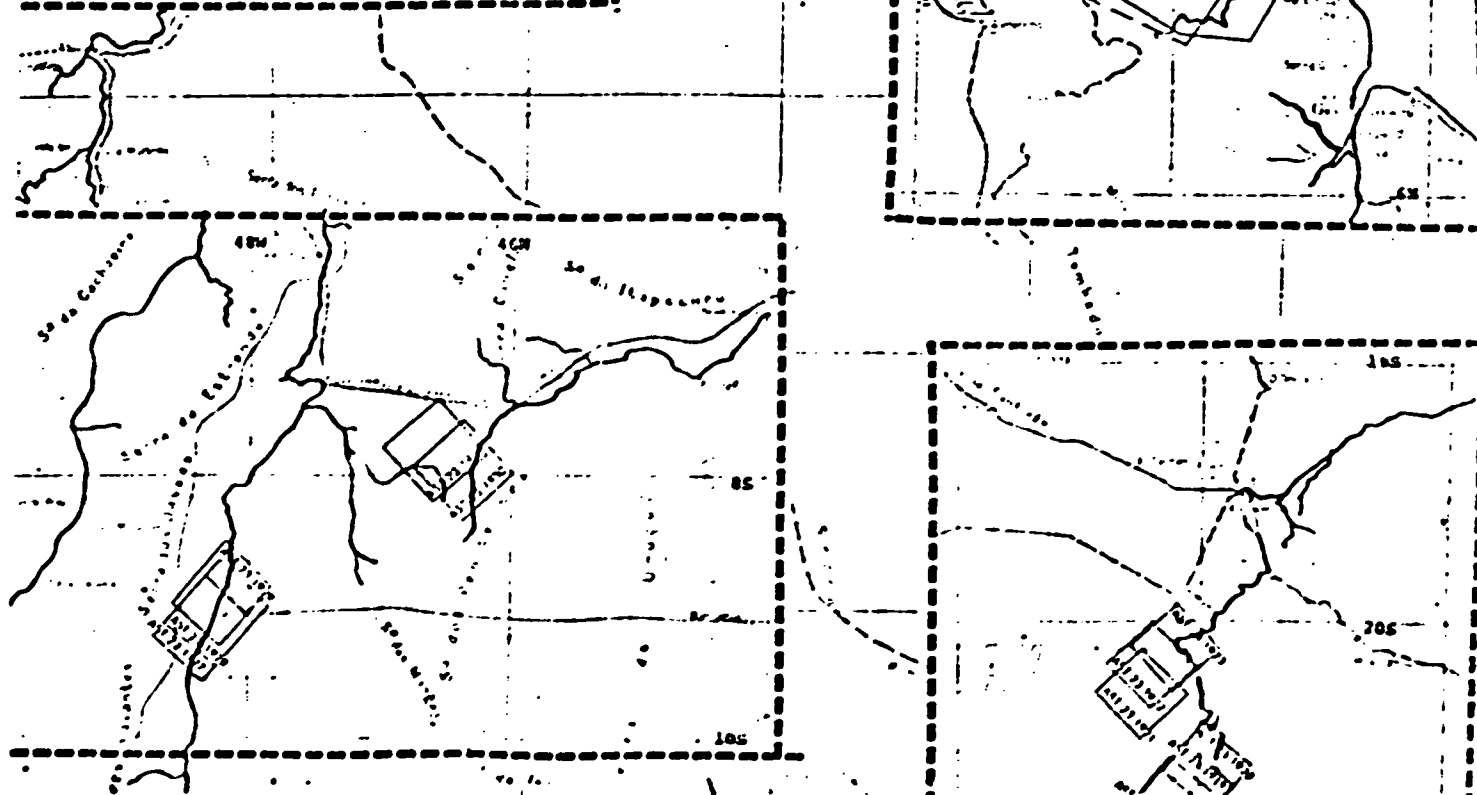
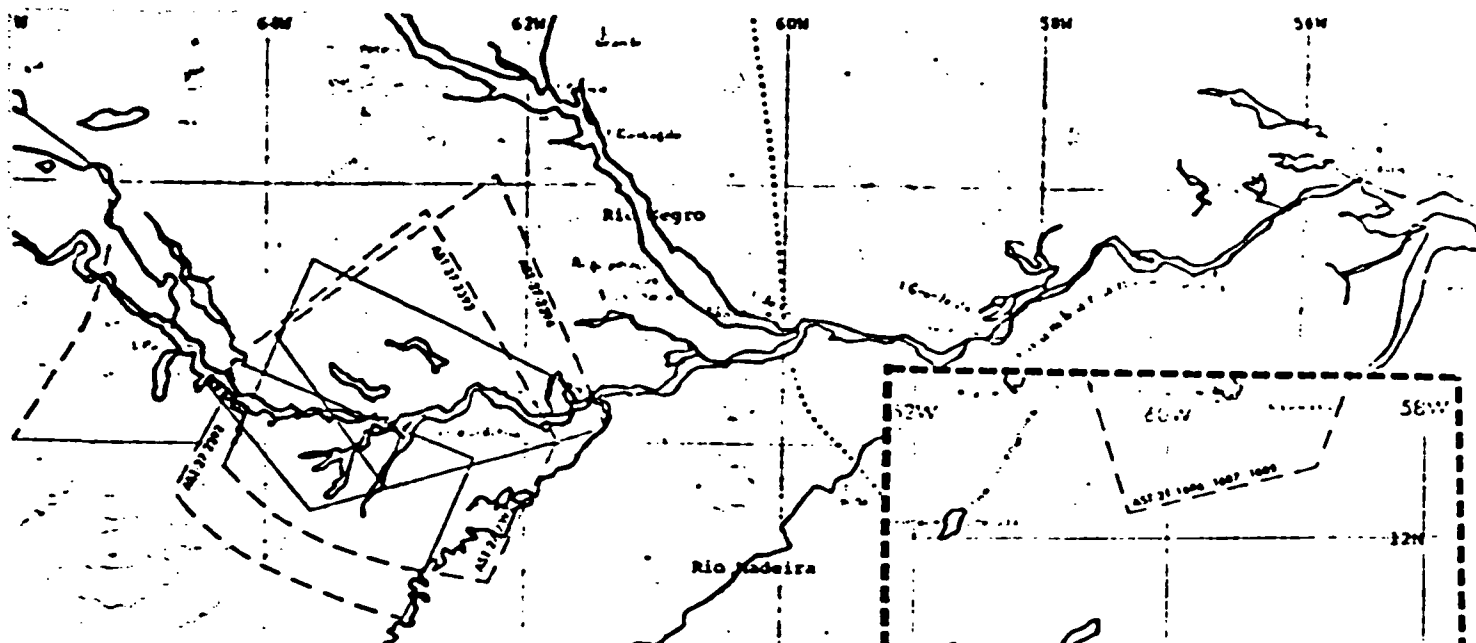
BROUGHT OUTSIDE (EARTH) COORDINATE PROJECTION
Scale 1:500,000 (approximate)

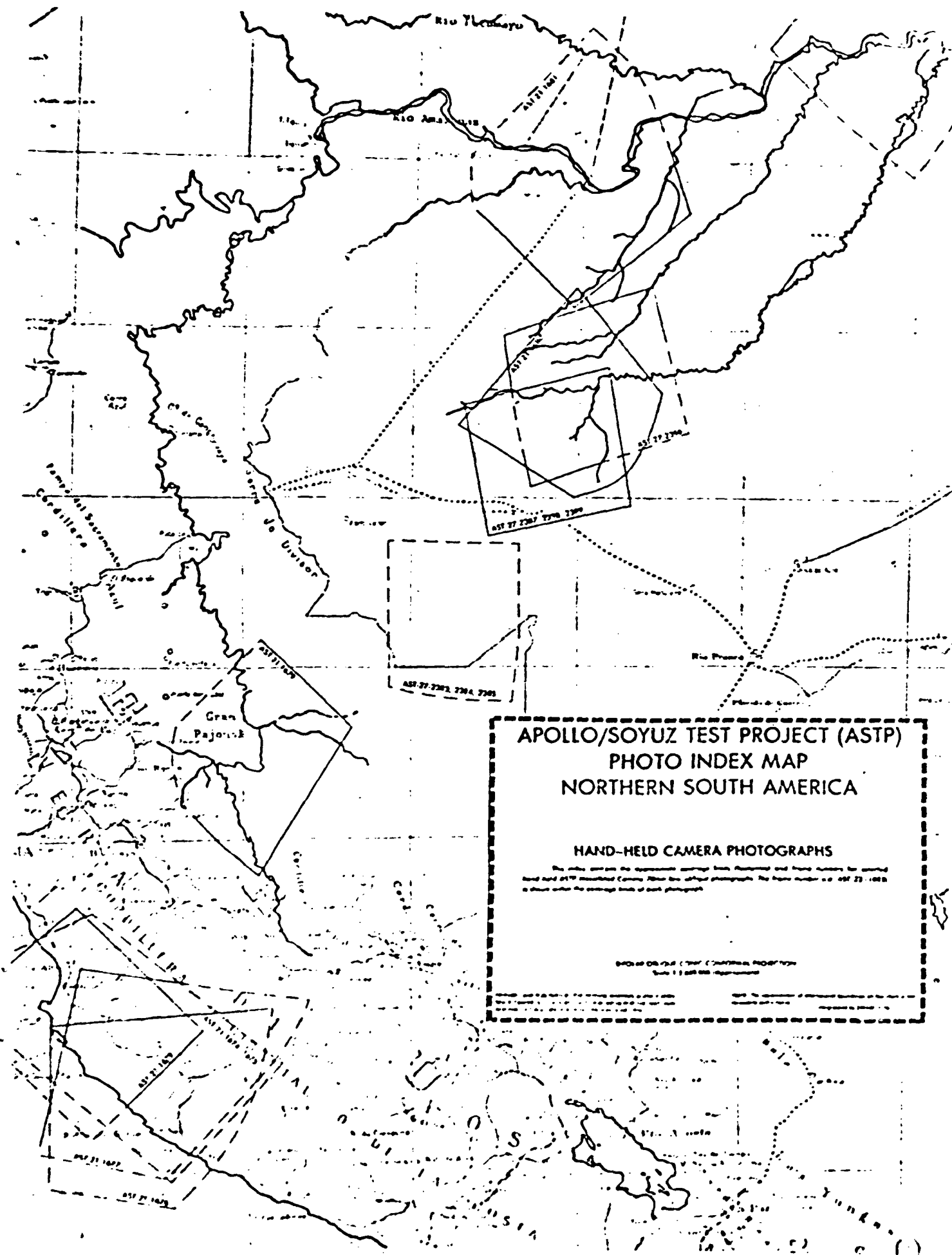
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Printed in the United States of America









[illegible]

**APOLLO/SOYUZ TEST PROJECT (ASTP)
PHOTO INDEX MAP
SOUTHERN SOUTH AMERICA**

HAND-HELD CAMERA PHOTOGRAPHS

The map contains the approximate coverage area, boundaries and frame numbers for selected hand-held ASTP hand-held camera film frame photographs. The frame numbers are ASTP 23-1000, as shown within the coverage area of each photograph.

SPOKE ON-TOUR CONIC CONFORMAL PROJECTION
Scale 1:2,000,000 (approximate)

1000. The approximate coverage area of the photographs is shown within the coverage area of each photograph.

2301, 2302

ASTP 23-1012 1013 1014

ASTP 23-1000 1010 1011

[illegible][illegible][illegible][illegible]

**APOLLO/SOYUZ TEST PROJECT (ASTP)
PHOTO INDEX MAP
SOUTHERN SOUTH AMERICA**

HAND-HELD CAMERA PHOTOGRAPHS

The maps contain the approximate coverage area, bearings, and frame numbers for selected hand-held ASTP hand-held camera film from various photographs. The frame number is ASTP 23-1009 as shown on the coverage form of each photograph.

SPHAIK ONIC CONIC CONFORMAL PROJECTION
Scale 1:2,000,000 (Approximate)

ASTP 23-1012 1013 1014

ASTP 23-1009 1010 1011

**APOLLO/SOYUZ TEST PROJECT (ASTP)
PHOTO INDEX MAP
SOUTHERN SOUTH AMERICA**

HAND-HELD CAMERA PHOTOGRAPHS

The map contains the approximate coverage limits, bearings and frame numbers for selected hand-held ASTP hand-held camera film from various photographs. The frame numbers are ASTP 23-1000, as shown within the coverage limits of each photograph.

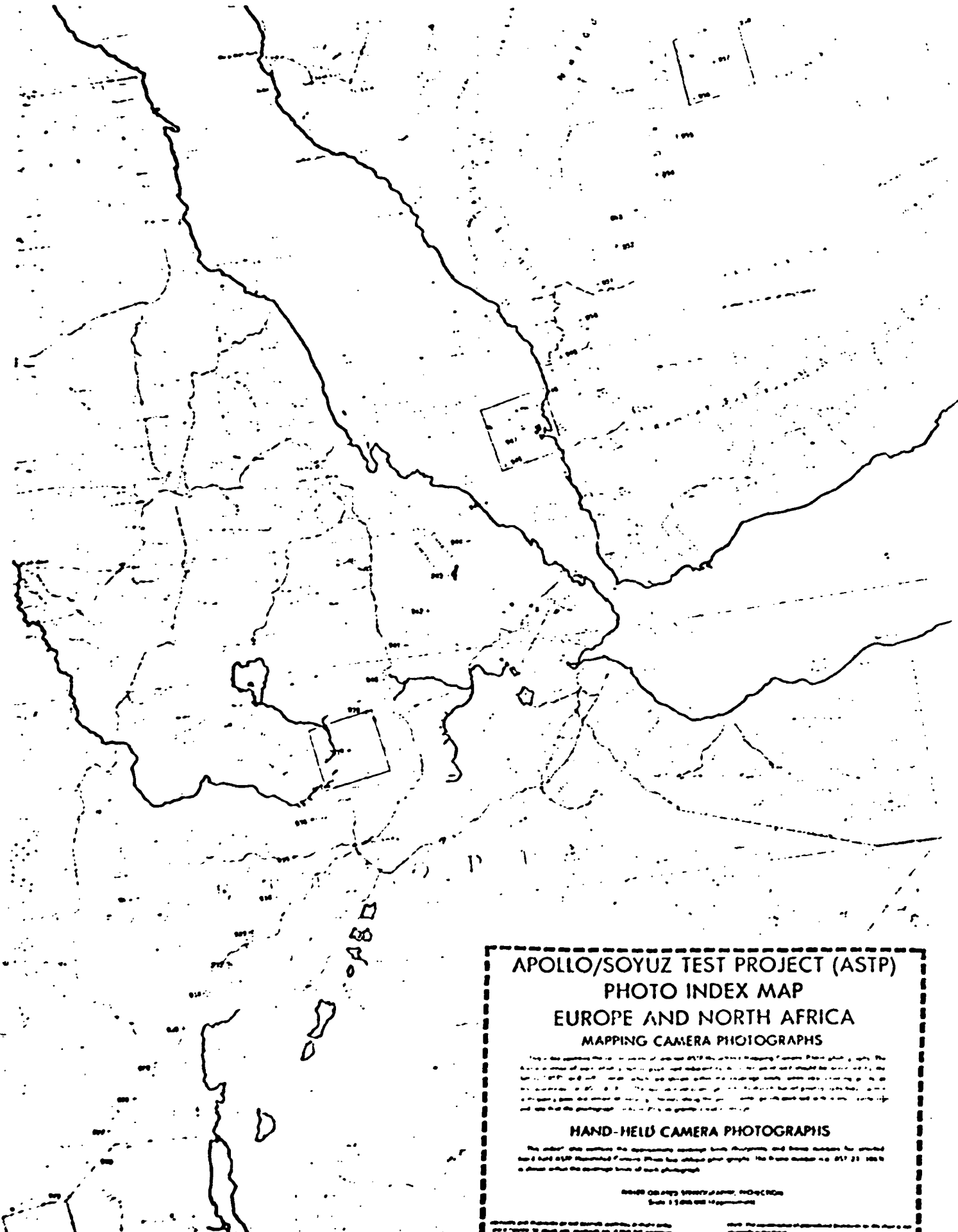
SPHERICAL CONIC CONFORMAL PROJECTION
Scale 1:2,000,000 (approximate)

1000. The approximate coverage limits of the map are shown within the coverage limits of each photograph.

2301, 2302

ASTP 23-1012 1013 1014

ASTP 23-1000 1010 1011



**APOLLO/SOYUZ TEST PROJECT (ASTP)
PHOTO INDEX MAP
EUROPE AND NORTH AFRICA
MAPPING CAMERA PHOTOGRAPHS**

This map identifies the locations of the ASTP Mapping Camera photographs. The locations of the photographs are indicated by the numbers 1 through 100. The numbers are placed in the center of the photograph's coverage area. The numbers are placed in the center of the photograph's coverage area. The numbers are placed in the center of the photograph's coverage area.

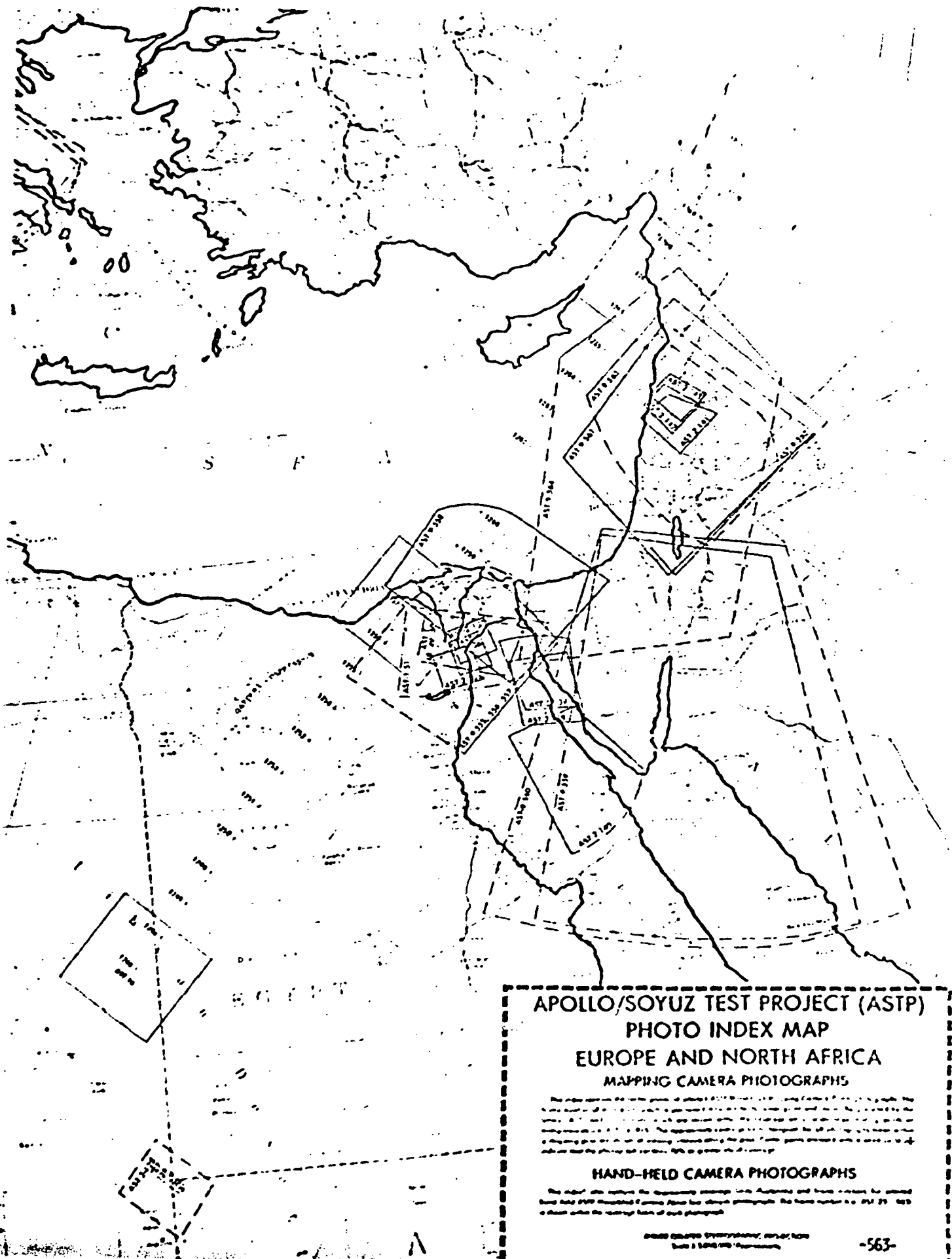
HAND-HELD CAMERA PHOTOGRAPHS

This index map identifies the approximate coverage areas of the hand-held camera photographs. The numbers 1 through 100 are placed in the center of the photograph's coverage area. The numbers are placed in the center of the photograph's coverage area. The numbers are placed in the center of the photograph's coverage area.

Source: Apollo/Soyuz Test Project, NASA
Scale: 1:500,000 (approximate)

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**APOLLO/SOYUZ TEST PROJECT (ASTP)
PHOTO INDEX MAP
EUROPE AND NORTH AFRICA
MAPPING CAMERA PHOTOGRAPHS**

The index map shows the ground area of the ASTP mission. The mapping camera photographs are shown as rectangular boxes. The boxes are labeled with the number of the photograph and the letters 'ASTP'. The boxes are arranged in a grid pattern. The map also shows the coastlines of Europe and North Africa. The Mediterranean Sea is to the south and the Atlantic Ocean is to the west.

HAND-HELD CAMERA PHOTOGRAPHS

The index map shows the ground area of the ASTP mission. The hand-held camera photographs are shown as rectangular boxes. The boxes are labeled with the number of the photograph and the letters 'ASTP'. The boxes are arranged in a grid pattern. The map also shows the coastlines of Europe and North Africa. The Mediterranean Sea is to the south and the Atlantic Ocean is to the west.

ASTP Mission Overview, April 1976
Scale 1:500,000 (approximate)

20 E 22 E 24 E 26 E 28 E

Z A I R E

**POLLO/SOYUZ TEST PROJECT (ASTP)
PHOTO INDEX MAP
SOUTH AFRICA**

MAPPING CAMERA PHOTOGRAPHS

The index shows the center points of selected ASTP Mapping Camera (MC) photography. The center number of each photograph is indicated below the center point and should be printed on the form "ASTP" and not "MC" which are shown within the coverage limits. Each photograph is given a transformation code ASTP 10 0 0. The approximate coverage limits for all photography shown on this mapping map are shown at right to indicate the area. Center points are shown with a small circle (1) indicate that the photograph contains 75% or greater cloud cover.

IMAGERY ORALATED STEREOGRAPHIC PROJECTION
Scale 1:5,000,000 (App. version)

100% The accuracy of projected location of the points is as indicated.

(1)

Lake

Tributaries

Victoria

[illegible][illegible]

Z A I R E

POLLO/SOYUZ TEST PROJECT (ASTP)
PHOTO INDEX MAP
SOUTH AFRICA

MAPPING CAMERA PHOTOGRAPHS

This index map shows the center points of selected ASTP mapping camera photographs. The frame number of each photograph is indicated by the number and date of the photograph. The letters "ASTP" and the word "PHOTO" are shown within the photograph frame, which indicates the date and time of the photograph. The photograph covers 75% or greater of the area shown. The map is a projection of the actual ground area.

MAP ORIGIN: SPHERICAL PROJECTION
 Scale 1:5,000,000 (approximate)

NOTE: The photograph is projected to the center of the map. The photograph is projected to the center of the map.

Z A I R E

POLLO/SOYUZ TEST PROJECT (ASTP)
PHOTO INDEX MAP
SOUTH AFRICA

MAPPING CAMERA PHOTOGRAPHS

The index shows the center point of selected ASTP Mapping Camera Tapes. The same number of each photograph is indicated below its center point and also at the bottom left corner. The numbers are shown within the coverage limits, except where they are outside the coverage limits. The approximate coverage limits are shown by dotted lines. A heading scale is shown at the bottom left corner of the map. Center points are shown with a small circle. Areas that the photographs contain 75% or greater cloud cover are shaded.

MAP ORIGINATED SPHEROGRAPHIC PROJECTION
Scale 1:5,000,000 (Approximate)

(1) This document is prepared as a reference for the purpose of providing information on the location of the study area. It does not constitute a commitment or guarantee of accuracy.

**POLLO/SOYUZ TEST PROJECT (ASTP)
PHOTO INDEX MAP
SOUTH AFRICA**

MAPPING CAMERA PHOTOGRAPHS

This index map shows the general pattern of coverage of the POLLO/SOYUZ TEST PROJECT (ASTP) in Southern Africa. The map is divided into a grid of squares, each representing a 1-degree by 1-degree area. The squares are labeled with the letters 'A' through 'Z' and the numbers '1' through '26'. The squares are arranged in a grid that covers the area from 20°E to 28°E and 20°S to 30°S. The map shows the outlines of the countries of South Africa, Lesotho, and Swaziland, as well as the outlines of Lake Victoria, Lake Tanganyika, and Lake Malawi. The map also shows the outlines of the major rivers of the region, including the Orange River, the Caledon River, and the Limpopo River. The map is a black and white line drawing.

WORLD ORBITAL SPHEROGRAPHIC PROJECTION
Scale 1:5,000,000 (approx.)

NOTES:
1. The squares are labeled with the letters 'A' through 'Z' and the numbers '1' through '26'.
2. The squares are arranged in a grid that covers the area from 20°E to 28°E and 20°S to 30°S.
3. The map shows the outlines of the countries of South Africa, Lesotho, and Swaziland, as well as the outlines of Lake Victoria, Lake Tanganyika, and Lake Malawi.
4. The map also shows the outlines of the major rivers of the region, including the Orange River, the Caledon River, and the Limpopo River.



MAPPING CAMERA PHOTOGRAPHS

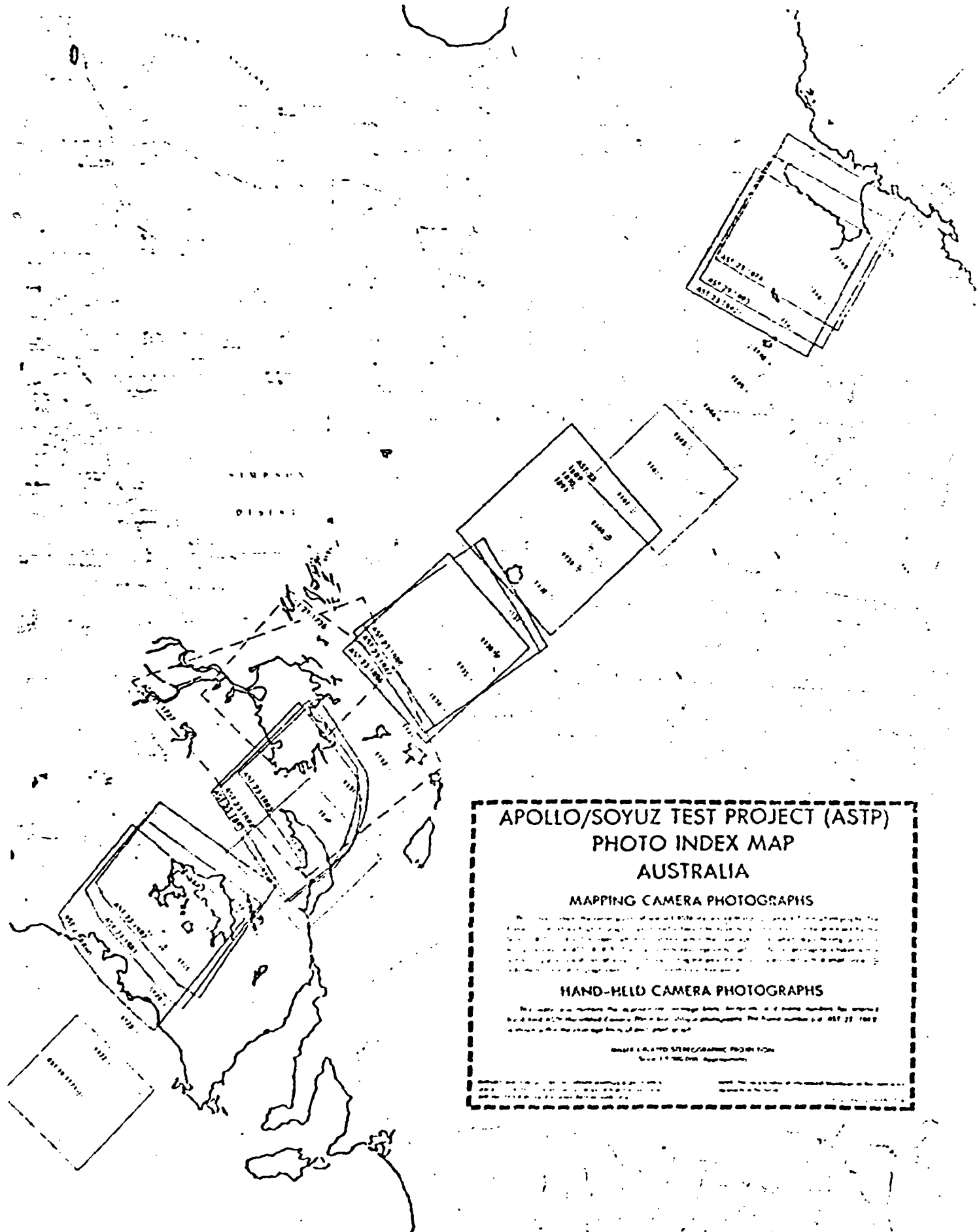
[illegible]

This index also contains the approximate coverage limits (beginning and ending numbers for unrolled hard roll) of 35mm unexposed Camera films and unexposed photographic film frames. The frame number is ADP 73-10023 is shown within the coverage limits of each photograph.

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STATE OF TEXAS
JAN 10 1964

1979 The application of international standards on the part of the community authorities.



APOLLO/SOYUZ TEST PROJECT (ASTP) PHOTO INDEX MAP AUSTRALIA

MAPPING CAMERA PHOTOGRAPHS

The following table lists the locations of the ASTP mapping camera photographs. The locations are given in terms of the State or Territory and the nearest town or city. The locations are given in terms of the State or Territory and the nearest town or city. The locations are given in terms of the State or Territory and the nearest town or city.

HAND-HELD CAMERA PHOTOGRAPHS

The following table lists the locations of the ASTP hand-held camera photographs. The locations are given in terms of the State or Territory and the nearest town or city. The locations are given in terms of the State or Territory and the nearest town or city.

Source: U.S. Army, AFM 7-21.1, 1973. (Revised 1974)

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SECTION 10

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10. REFERENCES

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